

Austria	Sk2.62	Indonesia	Rs2100	Portugal	Esc120
Bahrain	Din2.60	Iraq	RS1.50	S. Africa	Rs1.00
Belgium	BF4.68	Italy	L1700	Singapore	S\$1.00
Canada	Cdn1.00	Jordan	JD1.00	Sri Lanka	Rs4.00
Cyprus	Cd2.90	Kuwait	Frs500	Sweden	SkR9.00
Denmark	Dkr10.00	Lebanon	SL1.00	Tanzania	Shs2.50
Finland	Frs7.00	Lithuania	Ls1.00	Tunisia	DD1.00
France	Frs4.50	Malaysia	Ring25	Turkey	TL1.00
Germany	DM2.30	Mexico	Pes300	Uganda	Ush1.00
Greece	Dr1.00	Nicaragua	Cord1.00	Venezuela	Bs1.00
Hong Kong	HK312	Peru	Int1.00	Zambia	Dhs1.00
India	Rs15	Portugal	Esc1.00	Zimbabwe	Rs1.00
Norway	Nkr10.00	USA	\$1.00		

EUROPE'S BUSINESS NEWSPAPER

FINANCIAL TIMES

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SOUTH AFRICA

Zimbabwe's history lesson for Botha

Page 17

World News

Tutu defies SA law with call for poll boycott

ARCHBISHOP Desmond Tutu yesterday called on Anglicans not to vote in South Africa's municipal elections - a call which he admitted was illegal. The call puts him in a direct confrontation with the Government, which has prohibited advocating an election boycott. He said that the Government was guilty of intimidation by wanting to force people to Page 3

Le Pen proceedings
The French justice ministry has begun proceedings against Mr Jean-Marie Le Pen, leader of the far-right-wing National Front after criticising a minister with a pun on Nazi concentration camps. Page 2

Takeshita boost
Japan's ruling Liberal Democratic Party (LDP) won an election, dashed opposition hopes that the vote would reveal antipathy to tax reform plans. Page 3

Gandhi retreats
Mr Rajiv Gandhi, India's Prime Minister, backed down in announcing that his Government would delay legislation that would have restricted investigative reporting by Indian newspapers. Page 3

Sweden election
Sweden's ruling Social Democrats look set to win more votes than the non-socialist bloc in the September 18 general election, but may need the Greens to form a government, say opinion polls. Page 4

Chileans rally
Chilean opposition groups organised a mass rally in Santiago, calling for a "no" vote in the October presidential plebiscite, in which General Augusto Pinochet is to be the only candidate. Page 2

Sudanese starve
Scores of people are dying of hunger every day in an isolated town in south west Sudan, a Sudanese army officer said. A Khartoum newspaper reported 8,000 people had died there so far. Page 3

UK warship holed
A UK destroyer was holed on its port side and 11 crewmen aboard were injured when it collided with a container ship it was escorting toward the Strait of Hormuz at the entrance to the Gulf.

Soviet phone in
A Communist Party meeting in Corky was broadcast live on Soviet television and viewers were able to phone in questions, as part of the Kremlin's drive for glasnost. Page 3

Burma warning
Burma could be heading for civil war unless the besieged ruling party agreed to return to democracy, a US official warned. Page 3

Japan's "free ride"
Japan has enjoyed a "free ride" in basic research and must now start to take the initiative in research in areas such as materials, biotechnology and electronics, said an agency affiliated to MITI. Page 4

Yugoslavs protest
Over 65,000 Serbs marched in Smederevo, south of Belgrade, calling for action to be taken against the ethnic Albanians who live in the autonomous province of Kosovo. Page 2

Leaders back PLO
The leaders of Egypt and Jordan expressed support at the weekend for moves in the PLO to fashion a new political programme to help solve the Arab-Israel dispute. Page 2

Israeli "spy" trial
An Israeli businessman goes on trial behind in Tel Aviv today on charges of spying for the Soviet Union. Page 2

Snoring cure claim
Chinese scientists claim to have a cure for snoring: nasal drops made from natural ingredients, said the official China Daily. The remedy, said to be 95 per cent effective, should go into mass production next month and be exported. Page 23

Business Summary

South Korea plans full convertibility for won

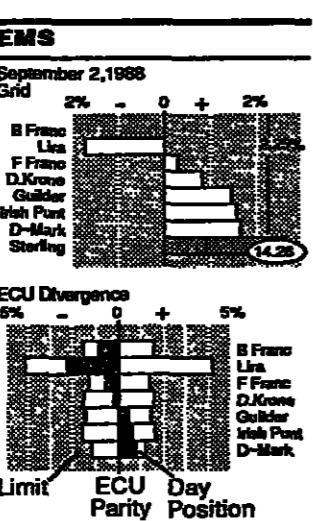
By Lionel Barber in Washington



Bush successfully fought off the 'wimp' accusations

SOUTH KOREA is to make its currency, the won, fully convertible in the next few months thus removing restrictions on the won's use in the foreign exchange market and in the settlement of many transactions. Page 18

EUROPEAN Monetary System: The D-Mark remained the most improved currency from central rates last week. The firm divergence gave rise to fears that French interest rates would have to be raised again in order to protect the French franc. The Italian lira lost ground to the buoyant D-Mark, and was fixed at a three-month in Milan on Friday. The Belgian franc was also weak, but remained comfortably within its divergence limit.



The chart shows the two constraints on European Monetary System rates. The upper grid, on the weakest currency in the system, defines the cross-rates from which no currency (except the lira) may move more than 2% per cent. The lower chart gives each currency's divergence from the 'central rate' against the European-Currency Unit (ECU), a basket of European currencies.

OSAKA, Japan's second city, scored a victory over Tokyo on Saturday when the city's rival stock exchanges simultaneously launched stock index futures and the Osaka exchange grabbed the greater share of volume. Page 21

PARMALAT major shareholder, Calisto Tanzi and other lesser shareholders in the Italian food empire rejected acquisition overtures from Kraft of the US worth a possible L700bn (\$405.4m). Page 21

NATIONAL Australia Bank, one of Australia's three biggest private sector banking groups, plans to raise up to A\$700m (\$US555.3m) from bond issues in the domestic market and in the US. Page 22

SWEDEN'S Stock Exchange should ban listings of companies where one shareholder controls more than 50 per cent of the voting power, a team of investigators said. Page 22

TURKEY plans to borrow the equivalent of \$700m from Japan this month in a move that looks likely to meet its rest of 1988. Page 22

BLUE ARROW: Tony Berry, chairman of the world's largest employment services group, said a group of American financial institutions would be prepared to fund a management buy-out. Page 22

AMERICAN Savings and Loan: the future of the bankrupt US third institution, subject of negotiations by Robert Bass, wealthy Fort Worth investor, remained uncertain after the expiry of a deadline set by the Federal Home Loan Bank Board. Page 21

ITALY: The value of Italian exports leaped by 29.2 per cent in May, the monthly trade balance showing L325bn (\$234.6m) deficit compared with L1.435bn in May 1987. Page 2

STATOIL: Norway's state oil company, and Hilmont, the US-based polypropylene subsidiary of Italy's Fibreco-Montedison are to continue their discussions after they were halted earlier this year by the Norwegian Oil and Energy Department. Page 4

EELSTREE STUDIOS: Brent Walker, fast growing UK leisure group, and Tranwood Earl, small UK merchant bank, announced the formation of a joint venture which will purchase the famous Eelstree Film Studios for £3.5m (\$4.6m) in cash. Page 23

EUROPE'S BUSINESS NEWSPAPER

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Exuberant Bush steals an opening march

By Lionel Barber in Washington

THE US presidential campaign celebrates its traditional Labor Day launch today with Vice President George Bush employing a distinct edge over his Democrat opponent Governor Michael Dukakis of Massachusetts.

While the latest opinion polls indicate a dead heat, Mr Bush, after a summer of uncertainty, has recovered to project an exuberant self-confidence.

Mr Dukakis, whose once commanding lead in the polls has evaporated, is searching for a second wind.

All this could change in the next four weeks as voters begin to focus, many for the first time, on the election just nine weeks away. A common theme so far has been the volatility in the polls, which show up to 20 per cent of the electorate moving back and forth between Mr Bush and Mr Dukakis.

Today, Mr Dukakis will speak in Detroit's Hart Plaza, near Cadillac Square, in an appeal to the blue-collar voters whose loyalty to the Democrat party has proved fickle in the last two presidential elections.

His running-mate, Senator Lloyd Bentsen of Texas, will join him there.

Every Labor Day event is staged for the TV cameras and here the Republican ticket has stolen a march. Mr Bush's youthful running-mate Senator Dan Quayle of Indiana, who is recovering from a sticky start, has booked the Statue of Liberty in New York Harbour, the same site as President Reagan used to launch his successful presidential bid in 1980. Mr Bush will campaign throughout California today.

So far Mr Bush has set a negative tone to the campaign.

Having spent most of 1988 fighting off the "W" word - wimp - the Vice President has found a new voice: "He (Dukakis) is the governor who vetoed the mandatory sentencing for drug dealers. He opposes capital punishment for drug kingpins. He fought tooth and nail to keep that outrageous furlough programme that lets murderers, rapists and drug dealers out of jail."

The Republican plan is to paint Mr Dukakis as a leftish

liberal who is soft on crime, soft-headed on national defence and a soft touch on federal spending - in other words, too big a risk to be entrusted with the presidency.

The withering attacks caught the Dukakis team flat-footed, a fact the Massachusetts governor acknowledged last Friday when, almost in desperation, he recalled his old confidant Mr John Sasso to a top campaign post.

Mr Sasso resigned 12 months ago when he admitted leaking a videotape to reporters which showed Senator Joseph Biden of Delaware plagiarising a speech by the British Labour Party leader Mr Neil Kinnock.

The return of Mr Sasso

Continued on Page 18



Dukakis: withering attack caught his team flat-footed

Bangladesh appeals for aid as floods leave 25m homeless

By Our Foreign Staff

THREE QUARTERS of Bangladesh was yesterday said to be under water in what is thought to be the worst flood disaster in decades.

More than 500 people are reported to have been killed and 25m left homeless as a result of heavy monsoon rains which have brought relief to most of India but a catastrophe to low-lying Bangladesh at the mouth of the Ganges river.

Dhaka airport was reported to be closed and rail and road links within the country cut by the floodwaters which have covered millions of hectares of farmland.

President Hussain Mohamad Ershad appealed over the weekend for international relief in the face of a situation that he described as "grave". The floods, coming on top of existing economic and political problems, could pose a severe challenge to his regime.

Mr Ershad said the country needed 2m tonnes of emergency food aid and helicopters to drop it to families who were stranded.

GE to attack UK jet engine market

By Lynnon McLean in London

GENERAL Electric Company of the UK (GEC) is planning to break Rolls-Royce's monopoly as Britain's jet aircraft engine maker.

Ruston Gas Turbines, a subsidiary of the British GEC, has drafted a memorandum of understanding with General Electric (GE) of the US, the world's largest aero engine manufacturer, to produce complete GE power units in the UK.

Mr Brian Rowe, senior vice-president of General Electric, said yesterday that the working arrangements with Ruston would have worldwide implications.

Lord Prior, GEC chairman, said Lord Weinstock, the managing director of GEC, was handling negotiations with General Electric. "A second UK source of aero-engines would be one of the outcomes of a successful programme with General Electric," he added.

Two years ago Rolls-Royce, the T70-6, built in collaboration with Alfa Romeo Avio and Fiat Aviazione of Italy is in direct competition with the ETM 322 helicopter engine from the Anglo-French venture, Rolls-Royce Turbomeca in cooperation with Piaggio of Italy.

Ruston Gas Turbines already makes aero engine components for General Electric, and has several collaborative agreements with the US company.

CONTENTS

THE MONDAY INTERVIEW

Mr A. Robert Abboud, the leading figure in this year's \$1.5bn recapitalisation of Houston's First City Bancorporation, takes a great interest in other banks which do not behave as he thinks they should

Page 34

GrandMet raises bid for Irish Distillers

By Lisa Wood

GRAND METROPOLITAN, the UK drinks group, last night raised its bid for Irish Distillers to £25.25 a share, £1.25 higher than its original offer, after receiving Takeover Panel permission to improve its terms.

The new bid values the Jameson and Bushmills white spirit distiller at £153.2m (\$47.5m).

The Takeover Panel took the unusual step of allowing GrandMet to increase its bid because of the prospect of a takeover offer for the Irish company from Pernod-Ricard, the French drinks group.

Pernod-Ricard has been meeting Irish Distillers' shareholders since last week to explain the new bid.

Irish Distillers, which on Friday raised its stake in the company to 51 per cent, said it was up to his younger colleagues to educate the people about the opposition.

Mr Chiam See Tong of the Singapore Democratic Party retained the seat he won for the first time in 1984 with an increased majority.

The opposition also came close to winning a number of other seats, most notably in the largest three-member constituency of Eunos where Mr Francis Seow, the former Solicitor General, lost by just over 1 per cent of the vote.

Dr Tay Eng Soon, who led the winning PAP team, said if Mr Seow had triumphed it would have made Singapore the laughing stock of the world. Mr Seow was detained for 10 weeks earlier this year accused of cultivating US political support.

As in other countries which operate a simple majority electoral system, the opposition had to gather 40 per cent and have the popular vote in order to make a breakthrough in parliamentary seats.

Thus although the opposi-

Singapore ruling party wins 61% majority in poll

By Roger Matthews in Singapore

SINGAPORE'S ruling People's Action Party, headed by Prime Minister Lee Kuan Yew, won its expected massive general election victory at the weekend, gaining nearly 60 per cent of the vote.

Despite the failure of the PAP to recover all of the ground it lost in 1984, Mr Lee said he was happy with the result, describing it as a very considerable victory and a vote of confidence in the younger generation of political leaders.

But he considered that some voters were still somewhat simple and said it was up to his younger colleagues to educate the people about democracy.

There was no clear indication from Mr Lee, who is 65 later this month, when he might step down from the premiership, or whether he intended to become the country's first elected president once the necessary legislation has been approved by Parliament.

However, Mr Goh Chok Tong, the first deputy prime minister,

OVERSEAS NEWS

BEREGOVY INVITED TO VISIT FRANKFURT NEXT WEEK

Bundesbank set to flex muscles

By David Marsh in Bonn

THE BUNDES BANK, stung by criticism of its monetary policies this summer from the French Government, is inviting Mr Pierre Béregovoy, French Finance Minister, into its den.

Mr Karl Otto Pöhl, president of the Bundesbank, has won agreement for the next meeting of the inter-governmental Franco-German Finance Council, on September 16, to be held at the central bank's headquarters in Frankfurt.

The Bundesbank, which raised its discount rate by half of point to 3.5 per cent 10 days ago, is cautiously tightening its monetary policy to counter the weakening of the D-Mark and to quell inflationary pressures. These moves run counter to the desire of the new Socialist Government in Paris to cut French interest rates.

By hosting the third full meeting of the Council, which

was set up at the beginning of the year, Mr Pöhl aims to underline to the French Finance Ministry that the Bundesbank, and not the Finance Ministry in Bonn, controls West German monetary policy.

The respective finance ministers hosted the first two sessions of the council this year, and it had been assumed that governments would be in charge of organising the body meetings. The Bundesbank wants to drive home to the French and to the Bonn Government its view that the D-Mark's weakness is hindering the aim of cutting West Germany's huge trade and current account surpluses.

The Bundesbank believes that the sharp real (adjusted for inflation) depreciation of the D-Mark within the European Monetary System has been contributing to a potentially destabilising boom in

West German exports within the EC this year.

West German exports to the rest of the Community rose by 9.6 per cent in the first six months of the year, compared with a rise in imports of only 3.6 per cent. Its trade surplus with the EC rose to DM22bn, against DM19bn in the first six months of 1982.

Although a realignment of EMS currencies looks unlikely in the near future, the rising trade imbalances within the EC are storing up considerable currency problems for the future, in the Bundesbank's view.

As a result of the increases in West German exports to EC members, and of the lower increases in imports, bilateral German trade surpluses widened sharply in statute. This suspicion has not been allayed by France's efforts to tone down public criticism of the Bundesbank in recent weeks.

With France (not including aeroplanes) rose to DM30bn from DM7.5bn. The surplus rose to DM5.4bn (DM5.3bn) with Italy, to DM2.2bn (DM4.0bn) with the Netherlands, and to DM5.5bn (DM4.5bn) with Belgium (Luxembourg).

The Franco-German Finance Council groups the finance and economy ministers, and central bank governors, from the two countries. It is intended to complete a Defence Council set up to increase military co-operation.

The Finance Council, however, has been regarded with some suspicion by the Bundesbank, which sees it as an attempt by the French to interfere with the Bundesbank's autonomy in the monetary sphere, which is anchored in statute.

"There is a chance for the first time in Poland to talk seriously about what can and should be done. I must seize this chance."

It was the first time the union leader had faced his supporters en masse since he had called for the strike to end last Wednesday night, then had to argue bitterly with miners as well as shipyard workers to persuade them to drop their protests.

On Saturday morning, some 200 protesters at Manifest Lip-

strikes. I know that we need a struggle but it must be a struggle which does not turn against us," he told the crowd, which responded more warmly when the local priest, Father Henryk Jankowski, called on the Government to legalise Solidarity.

Speaking to a crowd of some 5,000 in Gdańsk after a service at the Solidarity stronghold of St Bridget's, Mr Walesa argued:

"There is a chance for the first time in Poland to talk seriously about what can and should be done. I must seize this chance."

"I extinguished the strikes and I will extinguish any others that happen." Mr Walesa added as doubts began over his hold on the imagination of young workers who in the strikes of the past few weeks, have taken up the demand to have Solidarity recognised.

Poland does not need

cows. Colliery, the last remaining strikebound pit, emerged from the main gate, ending the stoppage after the authorities had promised not to victimise the strikers.

The day before, Mr Walesa had met with an angry response there when he arrived to put his case for an end to the strike. It was eight hours before he was able to prevail, as well as extract the no-victimisation clause from the miners.

In the past three weeks, at least 150 miners have been sacked in the area, over a dozen are under investigation for fomenting the strike, and many have been called up for military service.

In Szczecin on Saturday, port workers and bus drivers also dropped their protest in response to Mr Walesa's call.

Brezhnev son-in-law faces court today

MR YURI Churbanov, the disgraced son-in-law of the former Soviet leader Leonid Brezhnev, faces the Soviet Supreme Court today, in a multi-million-dollar corruption case expected to put the entire Brezhnev era on trial. Reuters reports from Moscow.

Mr Churbanov, 51, rose to First Deputy Interior Minister after marrying Brezhnev's daughter, Galina. He is accused of using his post at the top of the Soviet police establishment to take more than \$1m in bribes. Sixty other top police officers, all from Uzbekistan, will be in the dock with him. Together, they are accused of amassing several million dollars in bribes.

Soviet press accounts have described staggering corruption in Uzbekistan, a Central Asian cotton-growing republic where state farm workers, underground millionaires, police and Communist Party officials collaborated to cheat the state.

The press has made Mr Churbanov into a symbol of the decline under Brezhnev.

Large-scale economic crimes are still punishable by the death penalty, but it is unlikely Mr Churbanov would face execution if convicted.

Italian exports up unexpectedly

By John Wyles in Rome

THE value of Italian exports leaped by a wholly unexpected 22.2 per cent in May, leaving the monthly trade balance showing a modest £25m deficit compared with £1.45bn in May last year.

Delayed by a strike at Istat, the state statistical agency, the latest trade figures will only heighten perplexity about the Italian economy. The early months of the year appeared to show a flagging export performance and soaring imports puffed up by excessively strong internal demand.

However, the May performance places the growth in exports for the first five months of the year at 11.1 per cent, slightly above the 10.9 per cent rise in imports. Nevertheless, the five-month deficit of £6.55bn is ahead of the figure of £6.52bn in a year earlier.

At £15.425bn, imports in May were 17.6 per cent above the Cif (cost, insurance, freight) value of a year before, while Fob (free on board) exports rose 2.2 per cent to £15.100bn.

Budapest criticised

ROMANIA accused Hungary's official media yesterday of denigrating the policies of President Nicolae Ceausescu, a week after a summit between the two countries, Reuters reports from Viena. Romania's Communist Party daily, *Socialistul*, also said Budapest had cut living standards.

NOTICE TO HOLDERS OF SUTZAN CO., LTD.

(The "Company") issues a notice of cancellation of the shares of "Warrant" issued in conjunction with a notice of 22.2 per cent. Dividend ("Dividend") dated 19.7.1982 ("the Warrant").

Notice is hereby given that the subscription price to be made on or around the date of issue of the Warrant is to be paid in respect of certain transactions referred to below.

Notice is hereby given as follows:

(a) The Company issues 3,000,000 shares ("the Shares") by way of offering in Japan on August 20, 1983, at the offering price per share of Yen 25.00. The offering price per share is less than the offering price per share of Yen 497.50 ("the Instrument") relating to the Warrant. The following table shows the offering price per share of the Warrant to make payment to Class 3 of the instrument.

1) Subscription price before adjustment: Yen 1,397.00 per share.

2) Subscription price after adjustment: Yen 1,624.50 per share.

3) Effective date of the adjustment: August 20, 1983 (Japan).

(b) The Company issues 1,000,000 new shares in its Common Stock by way of free distribution whereby each shareholder of the Company will receive one share of the Company at 3.00 per share on August 31, 1983 ("the Warrant"). The offering price per share of the Warrant is to be paid in respect of the subscription price of such shares. The new subscription price is to be paid in respect of the instrument, adjusted pursuant to Class 3 of the instrument, as follows:

1) Subscription price before adjustment: Yen 1,624.50 per share.

2) Subscription price after adjustment: Yen 1,771.50 per share.

3) Effective date of the adjustment: September 1, 1983 (Japan).

STURZAN LTD., LTD.

By The Global Bank, Limited as Principal Paying Agent.

Dated September 3, 1983

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Walesa defends his decision to call for strikes to end

By Christopher Bobinski in Warsaw

MR LECH WALESZA, the leader of Solidarity, yesterday defended his decision to call off strikes and go into talks with the Polish authorities in the hope of securing legal recognition of his union bannered under martial law a year ago.

Speaking to a crowd of some 5,000 in Gdańsk after a service at the Solidarity stronghold of St Bridget's, Mr Walesa argued:

"There is a chance for the first time in Poland to talk seriously about what can and should be done. I must seize this chance."

"I extinguished the strikes and I will extinguish any others that happen." Mr Walesa added as doubts began over his hold on the imagination of young workers who in the strikes of the past few weeks, have taken up the demand to have Solidarity recognised.

Poland does not need

Serbian demonstration raises ethnic tension in Yugoslavia

By Judy Dempsey in Budapest

ETHNIC and nationalist tensions in Yugoslavia sharpened at the weekend after a mass demonstration by thousands of Serbs.

Despite a heavy police presence since then in the province, which is Yugoslavia's least developed and poorest region, tension has continued.

Several thousand Serbs have migrated from the province, partly for economic reasons and partly because of alleged intimidation by ethnic Albanians.

The proposals have been opposed by several other republics, including the comparatively well-developed western ones of Slovenia and Croatia, on the grounds that Serbia would become a more dominant and stronger political force in the Yugoslav federation.

In recent months, however, ethnic tension has taken on a new dimension through the policies of Mr Slobodan Milošević, Serbia's Communist Party leader. He is proposing what are regarded as radical

and potentially dangerous amendments to the Yugoslav constitution.

These would reduce the autonomy of Kosovo (and that of Vojvodina, the other autonomous province within Serbia), transferring responsibility for their external policy, security and judiciary to the Republic of Serbia.

The proposals have been opposed by several other republics, including the comparatively well-developed western ones of Slovenia and Croatia, on the grounds that Serbia would become a more dominant and stronger political force in the Yugoslav federation.

US airline wins legal round

By Anatole Kaletsky in New York

EASTERN Airlines won a preliminary round in its legal battle to reverse the Federal court decision last week which enjoined it against laying off 4,000 employees.

The US Court of Appeals said late on Friday that Eastern could start to lay off some of its workers, provided it posted a 4.7m (£2.8m) bond as collateral in the event that the unions won the full appeal.

Eastern said it welcomed the decision, but did not know how it would proceed pending the full hearing scheduled for Tuesday.

Chilean opposition groups stage mass 'no' rally

By Mary Helen Spooner in Santiago

CHILEAN opposition groups organised a mass rally in Santiago yesterday, calling for a "no" vote in the forthcoming October presidential plebiscite, in which General Augusto Pinochet is to be the only candidate.

The declaration was the first large anti-government gathering since the lifting of the state of emergency on August 27, and tested the strength of opposition to the 15-year-old regime, after pro-government forces held a demonstration in support of Gen Pinochet following his nomination last week.

A group of former regime officials calling itself Independence for Democracy issued a statement urging Chileans to vote "no" in the October 5 plebiscite.

The declaration said that with the military junta's decision to nominate General Pinochet, the Chilean armed forces had lost an "historic opportunity" to consolidate their achievements and to work towards national reconciliation.

On Saturday, more than 5,000 people attended a rally supporting Gen Pinochet and a "yes" vote at a sports stadium in eastern Santiago.

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OVERSEAS NEWS

Burma 'heading for bloodbath or a civil war'

By Richard Gourlay in Bangkok

BURMA could be heading for "a bloodbath or even civil war," Mr Stephen Solarz, chairman of the US House of Representatives' subcommittee on Asia, Africa, said yesterday after meeting President Ne Win of Burma in Rangoon.

This was "pressing" danger unless the besieged ruling party agreed to make "a demand for an immediate return to democracy," he added.

In an unusual 24-hour visit to a country in which the US has few direct interests, Mr Solarz met opposition figures and government leaders. However, he did not meet U Ne Win, who is thought still to be wielding power behind the scenes after 26 years of autocratic rule which ended when he stepped down formally in July.

"The future of Burma is likely to be decided in the next weeks," Mr Solarz said. "The only question is whether it will emerge peacefully or as the product of chaos and violence."

Since early August, Burmese people have taken over dozens of towns in a nationwide revolt against one-party rule.

Mr Solarz said he felt from his meeting with the president that the Government realised it did not "have the people's confidence."

During a one-hour meeting and lunch with President Ne Win, Mr Solarz said he thought the leaders knew the

Olympics liquor ban lifted

OLYMPIC athletes will be free to toast victories or drown sorrows now that Games Village authorities have lifted a liquor ban. Reuter reports from Seoul.

Foreign team officials complained after security guards confiscated liquor some American and Dutch athletes tried to smuggle into the village. The ban was lifted hours later.

The French were particularly pleased. They have already arranged for three truckloads of wine to be delivered for their team members.

Plane loads of athletes and officials are arriving daily for the Games, which open on September 17.

Lange supporter defeats left wing in party poll

THE moderate parliamentary wing of New Zealand's governing Labour Party completed defeat of its left wing at the weekend with the election as party president of a candidate preferred by Mr David Lange, the Prime Minister. AP-DM reports from Wellington.

Mr Ruth Dyson beat Mr Jim Anderton, a left-wing candidate, by 574 votes to 473 at the party's annual conference.

This compounded the success of the parliamentary wing on Friday, when it forced a confrontation with the union-dominated left wing by promising to consult party members on policy.

Mr Lange committed the Government to consult the party more extensively on such contentious measures as privatisation of state businesses, but he made clear that the Govern-

Tutu urges Anglicans to boycott SA pollsBy Jim Jones
in Johannesburg

ARCHBISHOP Desmond Tutu yesterday called on Anglicans not to vote in South Africa's municipal elections — a call which he submitted was illegal.

The call puts him in a direct confrontation with the Government, which has prohibited advocating an election boycott. In a sermon marking the installation of the first coloured rector of Cape Town's St George's cathedral, Archbishop Tutu urged white Anglicans to join black members of the church in not voting, adding that the Government was "guilty of intimidation by wanting to force people to vote."

He said he was aware of the penalties for calling on voters to abstain, but told the congregation security could not be achieved "through the barrel of a gun, nor through the draconian and oppressive state of emergency, nor through bomb blasts".

In recent weeks the Government has mounted an extensive advertising campaign designed to persuade black South Africans to vote in the racially segregated elections for local representatives. It is illegal to campaign against the elections and, inside South Africa, newspapers are forbidden from reporting boycott calls.

A high, though unspecified, turnout of voters in October is seen by the Government as necessary to endorse its claims that most black South Africans want to vote. Some 3m black South Africans are entitled to vote, about one eighth of the country's black population, and slightly more than 2m of these have been placed on the electoral roll. Restricted organisations, such as the UDF, are not allowed to nominate candidates.

Scores 'die of hunger daily' in south Sudan

SCORES of people were dying of hunger every day in one south-western town in the Sudan, Aweil, a Sudanese army officer said yesterday, and a Khartoum newspaper reported 8,000 people had died there so far, Reuter reports from Khartoum.

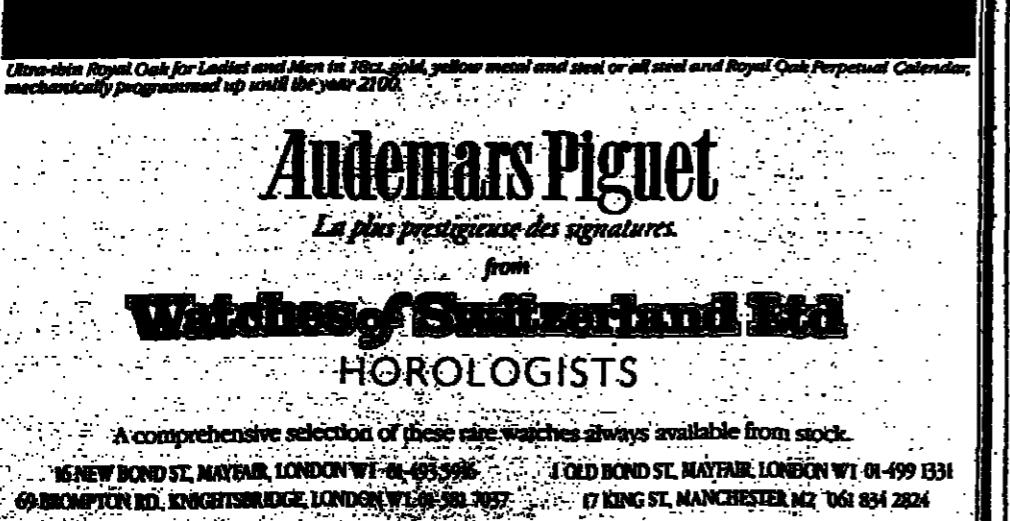
Officials said hundreds of destitute people were seeking food in towns which had little to offer. More than 30 people a day were dying in one such town, al-Metram.

"Refugees arrive with barely any clothes on, carrying only water gourds," one relief official said after visiting al-Metram in the province of Southern Kordofan.

The military commander of al-Metram, Major-General Abu-Groun Abdullah Abu-groun, was quoted as saying the same number of people died of hunger in the province's town of Aweil every day as were killed in northern Sudan by floods last month.

"The state is concerned with the north and ignores the south," he told the newspaper Sawi al-Sharia. "The fuss over 64 people dying in the north in floods proves it."

The Khartoum daily Al-Ahram quoted reports saying 8,000 people had died in Aweil.

TODAY, ONE WATCH REIGNS SUPREME.**POLITICAL OPPONENT ARRESTED FOR CONSPIRACY TO MURDER AS DISTRUST OF ADMINISTRATION GROWS****Gandhi in retreat over restrictions on newspapers**

By David Housego in New Delhi



MR RAJIV GANDHI, India's Prime Minister, beat a humiliating retreat yesterday in announcing that his government would delay controversial legislation that would have restricted investigative reporting by Indian newspapers on corruption scandals.

He announced this after intensive cabinet consultations over the weekend and in the face of rising criticism by opposition leaders, newspaper editors and lawyers. Even so, the postponement of the measure failed to satisfy journalists, who announced that they would go ahead with demonstration today and a one-day strike tomorrow.

The Prime Minister's climb-down came as a fresh political controversy seemed to be blowing up over the arrest on Saturday of one of Mr Gandhi's key opponents on charges of conspiracy to murder.

Mr Sanjay Singh, a former minister in the state of Uttar Pradesh who runs the opposition campaign in Mr Gandhi's Amethi constituency, was charged with being behind the plot.

The newspaper said:

"We hope that the discussion of burning problems in the presence of the people and with the help of television will become a standard of party work," said Mr I Chasnov, a senior executive of the Gorky regional party committee.

However, the newspaper did not say whether there were any plans to extend the experiment to higher-level party meetings, which are generally held behind closed doors.

Parts of the national Communist Party conference, which started in late June, were broadcast, albeit in edited form.

Journalists do not want to get drawn into discussing the revision of a measure whose fundamental aims they dispute.

Officials regarded Mr Gandhi's move over the prospective legislation as a conciliatory gesture, saying this was the first time a bill which had been passed by the National Assembly had been shelved before it was presented to the Upper House.

The Defamation Bill was to have passed through the Upper House today before being approved as law this week. It will be submitted instead to a ministerial committee headed by Mr P.V. Narasimha Rao, Foreign Minister, for revision.

Mr Gandhi proposed consultations with newspapers and journalists' organisations, saying: "Every suggestion will be taken into consideration." It was not part of the Government's intention to curtail freedom of the press, he added.

However, in the prevailing climate of distrust between the Government and the press, publishers' and journalists' associations yesterday demanded the withdrawal of the bill, before negotiations

in corruption scandals.

The bill also provides for speedier trials and hearings in camera. It would make winning defamation charges against newspapers far easier.

The controversy over the bill is linked with the complex murder case involving Mr Sanjay Singh in that both are part of the distrust and suspicion that has built up against Mr Gandhi's administration.

Mr Singh claims that his arrest is politically motivated and publicly points the finger at Mr Gandhi. Mr Singh is a relative of opposition leader Mr V.P. Singh, whose victory in the Allahabad by-election in June he helped to organise.

Mr Sanjay Singh is accused of having hired gunmen to murder Mr Syed Modi, a former badminton champion of India. Police say he was having an affair with Mr Modi's wife. The press have questioned the reliability of the police view and asked why Mr Sanjay Singh should jeopardise a promising political career by conspiring to kill somebody as famous as the badminton champion.

China links bank account interest rates to inflation

CHINA'S central bank will tie interest rates on savings deposits to inflation in a move to quell bank runs and panic-buying caused by rising prices, AP reports from Peking.

The official Xinhua News Agency said yesterday that the People's Bank of China would provide subsidies that would bridge any gap between interest rates and the price index.

It said the measure would take effect on Sept 10 and apply to three, five and eight-year savings deposits. Xinhua said that the subsidies would be given only to individuals. Collectives that tried to trans-

fer their deposits to individuals would be fined.

On Sept 1 commercial banks raised interest rates for time deposits, with rates for a three-year deposit going from 7.2 per cent to 8.6 per cent, still well below the consumer inflation rate of 19 per cent registered in June.

Sharp rises in prices, and rumours that the Government would lift the prices of more items, have led to runs on banks, hoarding and panic-buying.

Xinhua said yesterday that the Industrial and Commercial Bank of China told branches not to refuse withdrawals by depositors.

Soviet viewers telephone queries to Party meeting

A LOCAL Communist Party meeting in the Soviet city of Gorky was broadcast live on television on Saturday and viewers had a chance to phone in questions, in another first for the Kremlin's glasnost (openness) drive, Reuter reports from Moscow.

The Government newspaper Izvestia reported yesterday that a plenary session of the regional party committee, lasting several hours, was carried in full on a local television station in Gorky, about 500km east of Moscow. Around 50 people rang in with questions and proposals during the session, the newspaper said.

Peace returned to Burundi says president

BURUNDI'S President Pierre Buyoya says peace has returned to the central African nation where thousands of men, women and children were reportedly massacred in tribal fighting, Reuter reports from Nairobi.

Mr Buyoya said in a broadcast: "I would like to reassure all Burundians and tell them that peace has returned to the country." He warned against rumour-mongering and said: "There is no reason for anybody to leave their homes and property because of fear."

About 60,000 refugees have fled to neighbouring Rwanda.

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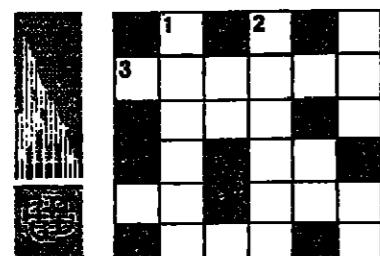
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Financial Analysts Crossword



1. It's where the EFFAS Congress will be on September 20 to 23. (Hint: Swiss and international)

2. It's where you can see LOGIBANQUE, a unique exhibition of the world's top specialist computer systems for financial analysts all under one roof (Hint: it's the same place as 1 Down)

Across

3. It's where you should be on September 20 to 23. (Hint: remind the board that, in today's markets, one cannot dare fall behind with current thinking and methods)

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OVERSEAS NEWS

Competition lawyers strike a bonanza in Brussels

Corporations fear an increasingly tough line on merger control regulation, William Dawkins reports

BUSINESS is booming for competition lawyers in Brussels. The reasons are fundamental to anyone who plans to do more business across European frontiers in the run-up to 1992 and the EC's free market.

The lawyers' anxious corporate customers are experiencing twinges of panic over the European Commission's increasingly tough and, they fear, decreasingly predictable, line on competition rules.

The latest trigger for their worries is the Commission's success in breaking up the three-company consortium bidding for Irish Distillers (IDG), on the grounds that it was illicitly trying to carve up the European drinks market.

That worked for the Commission for unusual reasons but is seen as a political move by Brussels to strengthen its hand in winning member-states' agreement to a controversial EC-wide merger control regulation.

Business lobbyists like the idea of such a regime, but only so long as it really sets clear rules for those launching takeovers, mergers and joint ventures, as they are likely to do increasingly in the approach to 1992.

Lobbyists fear that application of the scheme, now being extensively re-drafted by Brussels to try to satisfy its critics, might be muddled and bureaucratic in practice.

The Commission has intervened in recent months in several other highly sensitive sectors, such as that by British Airways of British Caledonian.

The crucial point, though, is that those interventions came through long negotiations after the completion of

the deals. What is so unusual about the IDG case is that the intervention came before the deal was done, which is what would happen under the proposed regulation. Also sensitive was the wrangle about British Aerospace's takeover of Rover, though the argument there was over state aid rather than monopolies.

Nobody doubts that the toughest competition policy is here to stay, whether or not Mr Peter Sutherland, the Irish Commissioner who has done much to raise the profile of Brussels in this area, keeps his post when the Commission's new term starts at the turn of the year.

The Commission is no longer afraid, as it often seemed to be only a few years ago, to hit big targets. What more, its decisions are having a wider impact on the development of specific markets, such as telecommunications, electronic banking, transport and insurance.

A few years ago, the Commission was using competition policy just as a policing exercise, to stop people from doing bad things. Now it is taking on a new life, to try to bring about the coherent development of fragmented European markets," says Mr Jean Rousseau, managing partner in the Oppenheimer law firm's Brussels branch and competition expert for the American Chamber of Commerce in Belgium.

Commission officials vehemently deny they are guilty of industrial "airline" but one admits, "In the IDG case we took a clear view that we did not want the market sewn up among competitors."

That decision is in revealing

contrast with the Commission's ruling only last year to allow Britain's ICI and Italy's Enichem to pool their loss-making polyvinyl chloride (PVC) operations to make Europe's largest PVC producer. They got away with carving up

The Commission is no longer afraid, as it often seemed to be, to hit bigger targets. What is more, its decisions are having a wider impact on the development of specific markets

their market, whereas the IDG consortium bid failed, because the chemicals deal brought about needed restructuring to a market creaking with surplus capacity.

Anybody who fails to understand how competition rules are developing could be in for some nasty shocks in 1992.

Unlike most of the single-market programme, this is one of the few areas where Brussels has almost supreme power, being able to crack down on infringements without the constraints of having to consult member states. The only constraint is via appeals against Commission decisions to the European Court of Justice in Luxembourg.

The Treaty of Rome, the EC's constitution, allows Brussels to ban any kind of market sharing arrangements or abuse of dominant positions (under Articles 85 and 86), and to fine wrong-doers heavily.

Brussels can also force the

repayment of state subsidies likely to give the recipients an unjustifiable advantage over competitors - a sanction it has used with unprecedented force recently.

Last year, Brussels ordered EC Governments to reclaim Ecu 747m (£493m) of illegal state aid - an enormous increase on the Ecu 11m repaid in 1986. It was remarkable work for a unit with a staff of 30, fewer than those assigned to administering aid in Wallonia, the southern region of Belgium. Fines against the corporate members of illegal cartels have also risen rapidly, from Ecu 12.7m in 1985 to a record Ecu 60m a year later.

The increase is partly due to a rise in the number of complaints from competitors and customers wronged by anti-competitive practices, and partly thanks to more Commission vigilance. Mr Sutherland justifies his tough stance on the grounds that unchecked abuse of competition will distort markets all the time, once restrictions on free trade have been scrapped.

Therefore, Mr Sutherland argues, it is necessary to regulate to create a free market, though many question whether the Commission is getting the balance right.

There is a wider reason for the Commission's increasing activity in competition policy. As the general trend towards market deregulation gathers pace, so does cross-border EC trade in services, of which strict enforcement by Brussels. That means the job of setting up unifying rules for such as price structures and tendering procedures shifts from the old national regulatory bodies to the Brussels competition

authorities.

To extend its competition powers to cope with its more important role, Brussels is making use of rarely tried legal tools and new procedures. These include the wider use of block exemptions, whereby

is mostly the case now. Industry's main fear is that the distinction between the powers of the Commission and those of national anti-trust authorities will be unclear.

One worry is that mergers given the go-ahead in Brussels might still run into trouble at home. Another worry is that the Commission will be unable to react quickly enough to the more than 200 mergers it expects will be covered by the regulation each year.

The Commission's most controversial recent competition action, in political terms, is its surprising use of the little-known article 90 of the Rome Treaty. This allows Brussels to issue directives on its own account, rather than going through the usual process of seeking member states' consent for new laws, in cases where public monopolies are harmfully distorting free competition.

The Commission did this during the summer with a directive to enforce free competition in the Ecu 9.5bn telecommunications terminal equipment industry. This is now being challenged by France in the European Court.

Commission officials continue to deny that all this amounts to the sector-by-sector creation of an industrial policy manipulated by Brussels, but some governments, especially those of France and West Germany, are uneasy.

The signs are that the issue of how far member states want competition rules to be developed will become an ever hotter discussion point in the months ahead. The outcome will be crucial for companies' flexibility of manoeuvre in the internal market.

Absenteeism on rise in Sweden

By Robert Taylor in Stockholm

SWEDEN is suffering an increase in industrial absenteeism through a change last December in the sickness benefit system, which now enables workers to secure 90 per cent of their earnings from first day they are off work.

The Government estimated in its 1988 budget that the reform, introduced to help disadvantaged workers in the private sector who lacked the kind of sickness compensation achieved by union bargaining in the public services, would add SKr3.5bn (£317m) to the annual sickness benefit expenditure. This was expected to total SKr27bn for 1988 but now the total looks like being more than SKr3.1bn.

Before the reform in sickness benefit, workers received no cash compensation from the state as a legal right for the first day they were away from work. The average daily level of

sickness absenteeism this year among industrial workers in Sweden amounts to 16.17 per cent of the labour force, with an absenteeism rate of 4 per cent for those in white-collar occupations.

According to a recent survey carried out by the leading employers' organisation in Sweden, SAF, the country suffers far more from industrial absenteeism than other industrialised countries. Last year, the average Swedish worker took off 27 days for sickness, compared with 11 in Britain, 16 in France and 18 in West Germany.

In a survey published last week in the country's leading business newspaper Dagens Industri, it was revealed that the daily absence through sickness at Volvo's Gothenburg plant was running at 7 per cent, at Saab Scania's Söderfors plant 16 per cent, and at

Trelleborg's main plant 20 per cent.

The public sector is also suffering high rates of sickness absenteeism. The average daily figure among the workforce for Stockholm city council, for example, was an extraordinary 40 per cent in 1987 and is reported to be not much less this year. Industry believes that there has been a clear upward trend in the absentee totals during 1988.

Both the ruling Social Democratic Party and the main trade union organisation (LO) want to reduce the amount of time employees are supposed to spend at work. In its general election campaign, the party is promising to bring in a new law that would give everybody six weeks holiday on full pay.

Industry estimates the cost of that reform would add between SKr1.5bn and SKr2.0bn to employers' bills.

Opinion polls favour Social Democrats

SWEDEN'S ruling Social Democrats look set to win more votes than the non-socialist bloc in the September 18 general election, but may be forced to rely on the Greens in forming a government, according to national opinion polls, Sara Webb reports from Stockholm.

The polls conducted by SifU and IMU show the Social Democrats winning between 44.9 per cent and 42.3 per cent respectively of the vote while the non-socialist parties would win 41.1 per cent and 39.2 per cent.

The Social Democrats won 44.7 per cent of the vote in 1985 and have relied on the communists for a majority in parliament.

The latest polls show the communists falling short of the 4 per cent needed to win seats, while the Green party looks set to enter parliament.

Portugal loses 40m work days in first half

By Diane Smith in Lisbon

Tankers taken up at bargain rates

By Kevin Brown, Transport Correspondent

TANKER CHARTERS were able to cover their requirements at bargain levels last week as brokers reported "miserable" trading conditions for owners in all the major loading areas.

E.A. Gibson, the London shipbrokers, said rate levels continued to drift for virtually all sizes of ships in the Gulf.

Two small VLCCs were fixed to the East towards the end of the week at Worldscale 36.

There was a higher level of inquiry for ships of about 80,000 tons deadweight, but the large number of available vessels caused rates to move down to about Worldscale 80 for Eastern destinations.

Gibraltar's, the London shipbrokers, said several vessels had been fixed from West Africa, but rates did not move; owners were trading at about Worldscale 53 for cargoes of 125,000 tons for discharge in north-western Europe or the US.

There were few inquiries for clean tonnage in the Mediterranean. One charterer seeking to move 22,500 tons of gasoil from Cagliari to Fos was said to have received 13 firm offers before covering at a lump-sum rate of \$82,500.

The dry cargo markets were dominated by Soviet business.

Denholm Coates, the London brokers, said Soviet charterers had taken six Panamax vessels for transatlantic round trips at about \$8,250 per day.

They were also seeking, more importantly, Panamax and smaller "handy-size" bulk carriers up to mid-1989, and standard Panamax rates moved up from about \$10,000 to \$11,500 within two days.

work, meanwhile often collecting salaries and benefits.

Doctors (but not yet psychiatrists) must now put an assigned code number on all certificates. Computers can thus detect chronic absences and institute a check on whether an illness is feigned.

Sociologists believe Portuguese absenteeism is rooted in weak education, low wage levels and erratic labour relations, in a land of companies directed paternalistically rather than managed.

Employers owe £s 120m (246lm) to the social security - much of it money deducted from wages. Few companies offer pension schemes. After 35 years of work and contributions, the average Portuguese now has a monthly state pension of £s13,000 (250).

The government is tracking down people who defraud employers and social security for months or even years, through doctors' or psychiatrists' certificates attesting to physical or mental inability to work.

The talks are aimed at establishing a joint venture to build a Nkr1.4bn polypropylene facility in Antwerp, Belgium. Statoil and Himont agreed less September to construct the Antwerp facility but the deal faltered when Statoil withdrew.

Statoil sees the new project as a way to further strengthen its petrochemicals activities. It needs the authorities' approval by spring if it is to participate in the Himont project.

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2104	BBB Design Group (USA)	-37	-	-	-
215145	Bardon Group	-169	2.7	1.4	24.0
215045	Bardon Group Cons. Prod.	115	6.7	6.7	-
215046	Berry Technologies	133	-1	3.9	10.2
215047	CCJ Group	210	11.0	11.0	-
215048	CCJ Group Cons. Prod.	244	-1	2.2	4.3
215049	Carlo Pfeff (S) Ltd.	150	1.7	6.1	4.2
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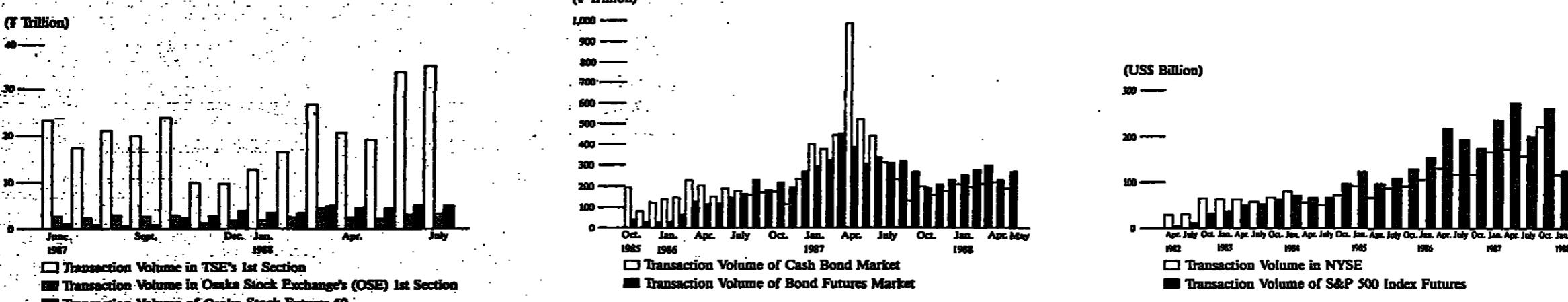
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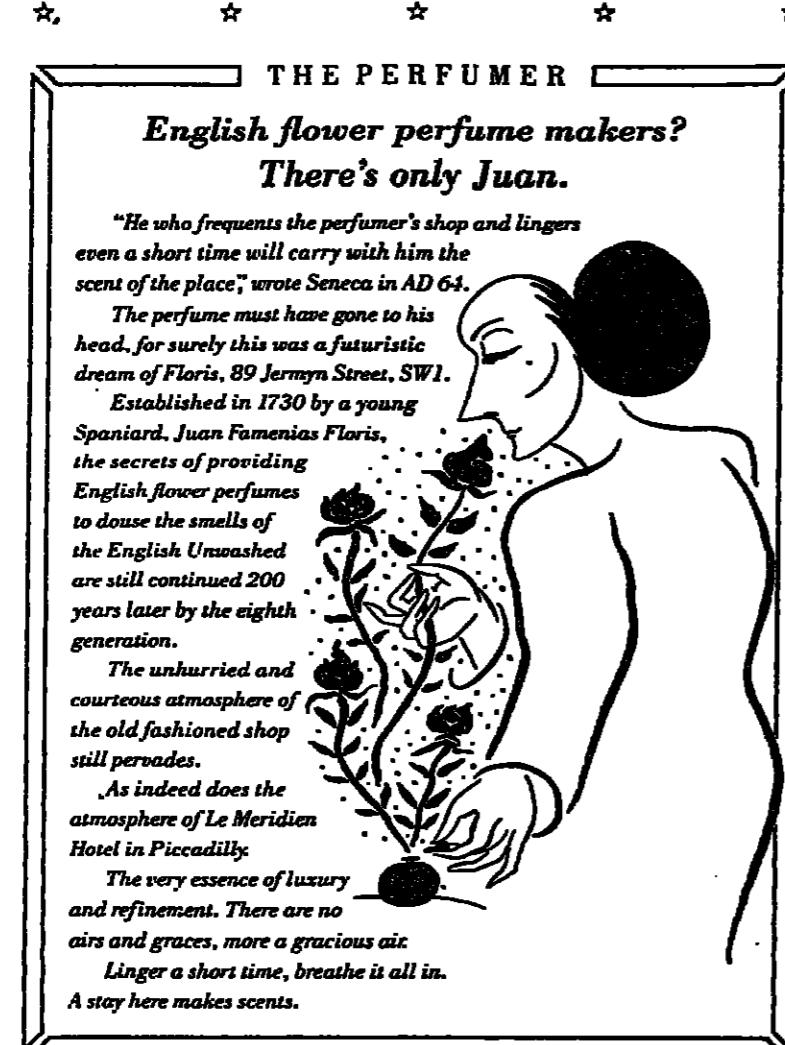
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£10,000	10.50%	10.78%
£25,000	11.00%	11.50%
£50,000	11.25%	11.57%

If adding or withdrawing money alters your balance band, the interest rate is automatically adjusted.

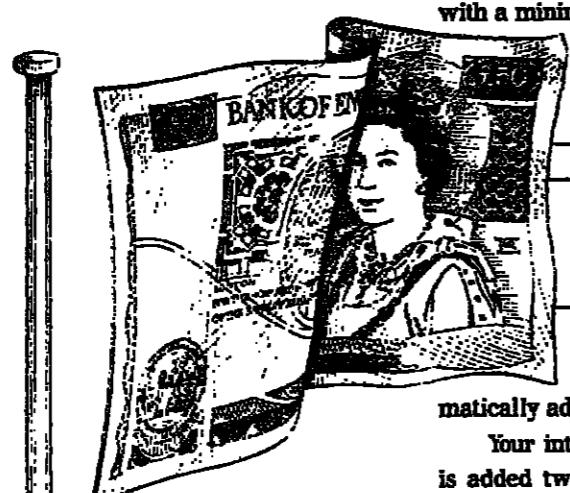
Your interest is paid gross without tax deducted, and is added twice yearly. So if you leave your full interest intact for the whole year you will receive a higher compounded annual rate (C.A.R.).

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I/We are not ordinarily resident in the U.K. Please send the declaration form for the payment of gross interest. I/We would like the interest to be added to balance Paid half yearly

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This sum is being invested in HALIFAX DEPOSIT INTERNATIONAL by me/us as sole/joint beneficial owner(s).

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Copies of the last audited accounts are available on request. Halifax Building Society's registered office is in Hull, U.K. Rates can vary and are correct at time of going to press.

UK COMPANY NEWS

Trades Union Congress meets in Bournemouth

Appeals for unity rejected as union leaders gather

By Philip Bassett, Labour Editor

LEADERS of the EETPU electricians' union yesterday refused last-minute appeals to follow TUC instructions and withdraw from two no-strike, single-union agreements.

The executive council's decision means the union will be expelled from the TUC today at the opening of its annual Congress in Bournemouth — precipitating the most serious split in British trade union history.

The EETPU's expulsion would be likely to signal the start of an inter-union membership recruitment battle and bring closer the possibility for the first time in Britain of an alternative organisation to the TUC.

A final attempt to prevent the expulsion will be made by Mr Bill Jordan, president of the AEU engineering union, the EETPU's closest union ally. He is expected to challenge the decision of the TUC's governing general council to recommend that the EETPU be expelled for refusing to accept the findings of two TUC inter-union disputes committees, which ordered the electricians to withdraw from two agreements.

Mr Jordan will argue that the option of continuing the EETPU's current suspension from the TUC should be put to the Congress, though the position was eased considerably yesterday when Mr Ron Todd, general secretary of the TGWU transport union, said he thought the arguments for spreading the TUC's decision to Labour were on weak ground.

the union's general secretary, said he fully expected his union to be expelled today. While he said the electricians had not turned their backs on compromise, he said: "I just can't see one at present that would fit the bill."

The EETPU considered both a compromise proposal from Mr Jordan, who put it to Mr Hammond in a telephone conversation yesterday, and an appeal to think again from Mr Norman Willis, TUC general secretary.

Mr Willis insisted there was no question of the TUC's compromising. Its Bridlington principles — rules under which unions undertake not to "poach" members from other unions — had to be complied with.

But Mr Hammond said the electricians' executive had nothing concrete to consider. "I reported to them what people were saying but they didn't find anything in that to make them change their principled position," he said.

One immediate result of the EETPU's expected expulsion will be pressure for the opposition Labour Party to take similar action against the union. Mr Neil Kinnock, party leader, will indicate the party's position on the issue when he speaks tomorrow to the Congress, though the position was eased considerably yesterday when Mr Ron Todd, general secretary of the TGWU transport union, said he thought the arguments for spreading the TUC's decision to Labour were on weak ground.

TUC report criticises electricians' defiance

By Our Labour Editor

THE TUC says that the conduct of the EETPU electricians' union "amounts to a deliberate, and continuing, refusal to accept the TUC's authority" in a special report on the union prepared before today's expected expulsion of the union from the TUC.

The reason for the union's likely expulsion is its refusal to accept two binding rulings of the TUC's inter-union disputes committee. The committee resolved rows between unions by implementing the regulatory principles agreed by the TUC at its 1982 conference at Bridlington.

TUC officials insist that the discipline in action against the EETPU is not about its controversial strike-free, single-union deal, but about the much narrower question of discipline within the trade union movement.

Indeed, TUC leaders claim that it is irrelevant to the question whether the agreements in which the two rulings relate — at Orion Electric in South Wales, and at two depots of Salstreme, a subsidiary of the Christian Salvesen distribution company — are strike-free deals at all.

The TUC's 27-page report, published yesterday, does say, however, that the so-called Bridlington principles are central to the TUC's role and purpose.

"Anything other than a mandatory requirement on unions to observe the outcome," it comments, "would rapidly bring the machinery into disarray."

Indicating that the EETPU is refusing to accept the TUC's authority to regulate relations between unions, the report says that "there is no indication that any future disputes committee awards would be accepted and implemented by the EETPU."

The TUC rejects the lesser penalty of a continued suspension of the union, saying that "if the EETPU had provided any inclination that it would accept the awards and sought a reconciliation on anything other than its own terms," then the TUC would seriously have considered such an option. But it says "there have been no conciliatory gestures."

Recommending expulsion, the report says that the EETPU's refusal to be bound by the same rules as other unions "raises legitimate concerns about the risks of aggressive EETPU organisational activities, unrestricted by the constraints of the TUC's disputes principles and procedures and with other unions denied any form of redress."

The report concludes that "so long as the EETPU is unwilling to co-exist in association with all other affiliates within the TUC, sharing equal rights and responsibilities one to the other under the rules, they have, in effect, divorced themselves from the TUC."

The EETPU - General Council's Report to Congress, TUC, Congress House, Great Russell Street, London WC1B 3LS. £2.

Ferranti cordless telephone plea

By Terry Dodsworth

SIR Derek Alun-Jones, chairman of Ferranti, the UK electronics group, wants BT, GEC Telecom and Mercury to be barred from operating cordless telephone services of the type Ferranti plans to launch later this year.

In a letter published in the Financial Times today, Sir Derek also argues that delays in granting licences for the cordless system could damage Ferranti's prospects and its heavy investment in pioneering the technology. The issue of common operating standards should not be used to delay the launch of the service, he says.

Because the system has to use the telephone networks run by either British Telecom or Mercury, Sir Derek argues that these two companies would have an unfair competitive advantage if they were also given licences for the cordless service.

He adds that the cellular telephone service companies owned by Racal and British Telecom — which runs the Cellnet system in co-operation with Securicor — should also be excluded from the cordless market.

Sir Derek's comments coincide with a detailed study of the licensing question by the Department of Trade and Industry and the Office of Telecommunications, the regulatory body for the telephone industry.

Four front-runners have emerged as potential cordless system operators, but Ferranti claims that it has a substantial lead over its competitors.

The new generation of cordless telephones is being promoted as a cheap alternative to cellular mobile car phones for individuals who want to use their personal telephones while on the move.

Subscribers will be able to carry the cordless handsets around with them, making calls from a number of public locations where the handset will link into the conventional wired telephone system through a radio link with a base station.

Letters, Page 17

Better deal for staff on Grand Met poll

By John Gapper

GRAND Metropolitan Retailing has revised job structures and improved benefits for part-time workers after almost two thirds of its staff said in an attitude survey that they could barely live on their present income.

Despite dissatisfaction with pay and benefits, the company found that most bar and catering staff enjoyed their work, and many wanted more opportunities to progress within the company.

Junior staff gained most satisfaction from the social aspect of their jobs — working in teams and mixing with customers. Although they rated their managers highly, they thought the company's internal structures impeded them.

The survey, carried out last December, is one of a number of tests carried out by companies to test staff attitudes. GMRC does not recognise unions nationally and believes only about 10 per cent of staff are union members.

The company, which owns the Berri and Clifton Inn chains and Chet and Brewer public houses, employs about 33,000 people. About 2,600 completed questionnaires and a further 200 were interviewed by a communications consultant.

GMRC is among the hotel and catering employers pressing for the abolition of the Licensed Residential Establishment and Licensed Restaurant Wages Councils, which set minimum pay rates for 27,000 of its staff.

Although it pays 66 per cent of its staff above minimum rates, it argues that wages councils are impeding it from creating a flexible pay structure that would allow it to give its staff more incentives to provide good service.

As a result of the survey, the company has made a number of innovations in employment policy. They include:

- A five-day course in communications and personnel management for pub and restaurant managers, which teaches them how to get the best out of staff.

- An increase in the number of assistant manager posts in its 1,600 establishments to provide staff with more promotion prospects.

- The introduction of junior supervisor posts within each pub or restaurant, known as Staff Leaders. They have some responsibility for training and earn 25 pence an hour more than other junior staff.

- Giving part-time staff benefits previously confined to those working 16 hours or more per week. They now get discounts, quality for pension, life assurance and sickness pay schemes.

- Introducing incentive schemes based on prizes for staff voted by their colleagues to have given the best service to customers.

Mr Alan Wild, director of employee relations and communication, said the survey had shown the company that it was attracting staff who valued their jobs and wanted their efforts to be recognised tangibly.

Paying benefits to part-time staff enabled the company to reward them more highly without falling foul of the threshold for national insurance payments, which meant that many did not want to earn more than £24 a week.

The company is to carry out a further survey of employee attitudes next year to test whether it has managed to improve its standing among its staff.

FT's £70m investment programme sees printing move to London docklands

PRINTING of the UK editions of the Financial Times today moves to the FT's new printing plant in London's Docklands, the culmination of a three-year £70m investment programme.

New £10m presses mean much higher quality reproduction of both text and photographs and make possible a greater use of colour in both advertising and editorial.

They will also allow an increase in maximum pagination, enabling further expansion of the FT's news and statistical coverage.

In preparation for this, the London FT has followed the International edition in being split into two distinct sections, with surveys forming a third section when they appear.

The latest Rockwell Goss

Headliner web offset presses give the FT run-of-press colour for the first time, although the main editorial use of colour is likely to be in graphs and charts. The inserting of pre-printed colour will continue.

The seven-unit presses enable the FT to print 55-page papers compared with the 48-page limit of the old presses at Bracken House in the City of London. An eighth unit is already on order and there is room for a ninth. This will make 72-page papers possible.

The plant is also to be equipped with the latest inserting equipment — machinery that can insert everything from pre-printed sections to brochures and company reports at the same speed as the printing presses.

The £70m investment includes the cost of the framed electronic editorial system introduced over the past year and the cost of more than 30 voluntary redundancies as well as the re-equipping of its production departments as well as the new printing plant in the old East India Docks.

The new plant is being operated by about 200 people compared with 650 under the old system.

"It's the largest development in the history of the FT," said Mr Frank Barlow, chief executive of the Financial Times.

Further details about the FT's new plant can be found in a wide ranging survey of developments in printing technology which appears as a third section of today's paper.

THE BEST OF TASTE: MIX A BEEFEATER COLLINS

Take a large measure of Beefeater Gin and add it to the juice of a freshly squeezed lemon and one teaspoonful of sugar. Pour into the tallest glass you can find, add chilled soda water and don't forget the ice. Add a dash of Angostura Bitters, stir slightly and serve with a slice of lemon.

Cheers!
For a recipe leaflet which further demonstrates the excellence and versatility of Beefeater Gin,
ring 01 580 2020.

James Burroughs, Beefeater House,
Marlford Place, Kensington, London SW1 5DF, England.



THE GIN OF ENGLAND

THEY BUILD THEM BETTER

Look back as far as you care to. Back to the very first motor car, and you will find the name 'Benz stamped on it. It's a grip on motoring innovation the company has never relaxed. In the '50's, Mercedes-Benz introduced the 300SL, shown here, the world's first fuel-injected car. Thirty-three years ago. And virtually every example of this famous Gullwing



car is still in running order. The reason is as simple as the cars are complex. Its radical engine was married to just as radical a chassis, and it became an instant classic. At its unveiling it merely

reconfirmed the margin of Mercedes-Benz design and engineering superiority.

Today, the cars are even more complex, and those design and quality control margins are still there – and just as wide as ever.

THEY CHECK THEM MORE THOROUGHLY

It takes 7 years to produce a quality controller at Mercedes-Benz. Seven years, minimum, of assembly line experience before promotion to the Quality Assurance elite is considered. And there are 5310 inspectors, more for each vehicle produced than any other manufacturer permits. Their authority is unquestioned, their demands uncompromising. The production line moves no more quickly than the quality control inspectors allow. No matter how minor the fault, the entire production line will be halted if it is not rectified. It is the toughest production regime there is.

THEY RELY ON CRAFTSMEN

You could be excused for thinking, these days, that robotics has taken over the industry. Not so at Mercedes-Benz where the skills and seasoned discrimination of 50,000 craftsmen complement mechanical precision. Robots work more quickly and to a higher degree of accuracy than is humanly possible. But that is only half the story. There is no substitute for the eye of the craftsman. Choosing the right grain of wood; selecting and matching the fine leather hides; ensuring every important body weld is smooth enough for the paint shop: none of these tasks can be entrusted to a mere robot.



TOMORROW'S CLASSIC?



**ENGINEERED LIKE NO OTHER CAR
IN THE WORLD.**

THEY BUILD LONGER-LASTING ENGINES

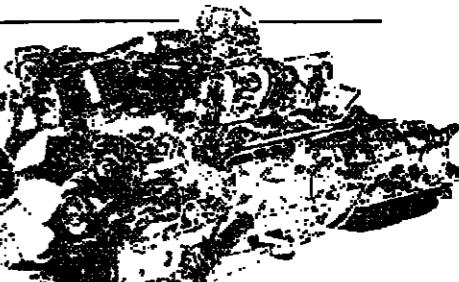
Today's exemplary

Mercedes-Benz

engines incorporate

some of the most

advanced powerplant

THE WORLD'S MOST ADVANCED
LIGHT ALLOY V-8

technology in production. In four, five, six or

eight cylinder configurations there are none more mechanically refined

or trustworthy. Durability testing, to destruction, over years of development, has forged petrol and diesel plants of unmatched reliability and smoothness. Every Mercedes-Benz engine brings to its

customer a heritage of literally millions of miles of punishing work on dirt roads, motorways and test beds.

A case in point is the light-alloy V-8 engine block. A revolutionary low pressure casting technique was chosen over more traditional methods favoured by other manufacturers. Years of exhaustive research and development have produced a non-ferrous alloy block of uniform density, with silicone crystal cylinder linings, that matches the strength and longevity of cast iron – but is up to 40 lbs lighter.

THEY LEAVE NO STONE UNTURNED

The Mercedes-Benz production philosophy tolerates no compromise. It is an approach to car building that embraces every single discipline. Thoroughness and quality control vigilance, above all else, ensure that every car is fit and ready to satisfy the most discriminating customer.

A small example: even when a computer has decided that exactly the right amount of wax solution has been injected into body section cavities to ensure anti-corrosion protection, an inspector double-checks the wax application by inserting NOT YOUR CONVENTIONAL NUT AND BOLT. a specially designed endoscope into the most seemingly inaccessible crevices. And only Mercedes-Benz, surely, uses ground walnut husk powder and oil as a mild abrasive with which to clean and polish the interior of newly machined gearbox casings.

Undeniably, today's Mercedes-Benz is indeed a more complex car, an even more thoroughly engineered and innovatively designed car, than its predecessors, but it is also reassuringly safer, more practical, less demanding to own and easier to drive, than ever before.

UK NEWS

Ford announces end to cheap car sale finance

By John Griffiths

UK CAR MARKET leader Ford has told its 1,100 dealers that it is ending its cheap car purchase finance schemes, regarded as the industry's most successful sales-booster.

Ford's action, prompted mainly by the increased cost of maintaining them through a period in which base rates have risen by 4.5 percentage points, is expected to be greeted with relief by principal rivals such as Vauxhall, Rover and Peugeot Talbot, which are likely rapidly to follow suit.

However, there are signs that the move may also have been influenced by Ford's increasing unease on two other fronts: the Government's concern over the consumer credit explosion and the significant role being played by new car imports in the UK's gathering balance of payments crisis.

As the UK's clear market leader, with its share of nearly 30 per cent almost double that of its nearest rival, Ford in the past few weeks has become uncomfortably aware of just how big its contribution to this year's car imports bill is likely to be.

So far this year the share of its UK sales taken by cars built

in its British plants is down to about 57 per cent, about 10 percentage points lower than last year. Its target is 75 per cent.

Even if Ford were to increase its UK sourcing to 60 per cent for the full year in a 2.2m market and with a 27 per cent share Ford would sell about 240,000 imported cars, around 11 per cent of the total market and equivalent, for example, to all Japanese car sales combined.

Ford can claim many more export offsets than either Vauxhall or Peugeot Talbot - a high volume of Transit van and engine exports among them.

However, in a speech at the end of last week to fleet operators, Ford UK managing director Mr Roger Humm placed heavy emphasis on the £5,000 vehicles - commercials as well as cars - Ford says it lost in UK strikes earlier this year.

Even so, manufacturers with the foresight to maintain investment and capacity levels (in the UK) through the early 1980s are now finding that demand is outstripping all forward projections, with the result that their production levels have yet to catch up with their order

book." Taken together, Ford's finance scheme move and Mr Humm's remarks indicate that Ford itself will not be too sorry to see UK new car demand slow down somewhat if it helps to ease the motor industry's own balance of trade problems as a political issue.

At his meeting with dealers, Mr Humm said the cheap finance schemes had become simply too expensive to sustain.

Their withdrawal, announced at the launch of revised versions of Ford's Escort, Orion and Sierra ranges, means that the era of very cheap finance, subsidised jointly by the manufacturer and dealer, is over, said Mr Humm.

Throughout this year, cheap finance has been proving a spectacularly successful way of boosting sales in the UK. Mr Humm told the dealers that even allowing for the possibility of a final quarter slowdown, nearly 2.2m cars should be sold in the UK this year, a record for the fourth year in a row.

According to Ford, roughly half of private motorists buying its cars used the cheap finance schemes in August.

NHS review may make 'drastic' proposals

By Michael Cassell, Political Correspondent

MR KENNETH CLARKE, the Health Secretary, yesterday indicated that the current review of the National Health Service might bring "fairly drastic" proposals for improving its performance.

The suggestions will raise expectations that the review

being conducted by a small group of ministers under the chairmanship of the Prime Minister, will produce radical plans for modernising the health service.

Mr John Moore, who was the Cabinet minister responsible for the NHS before the July reshuffle, had repeatedly indicated that the review would not lead to any policy overhaul. The intention, he emphasised, was to "mastermind change by evolution rather than by revolution."

Yesterday, however, Mr Clarke indicated that he expected the review to point to the need for "big steps" to improve the NHS record of patient care.

He said he expected the review to be completed in the autumn and it is widely expected that he will use his address to the Conservative party conference in October to provide the first details of its conclusions.

Mr Clarke, who emphasised that he was a "keen enthusiast" for the NHS, said that to turn it from "a ramshackle bureaucracy into a well-run business" delivering patient care and treatment, required big steps, which the Government was ready to take.

He said he was particularly anxious to overcome weaknesses in a system which, in spite of the injection of massive and rising amounts of public finance, saw some health authorities run out of cash, with harmful consequences for patients.

Mr Clarke also defended the Government from accusations that it was refusing to abide by its commitment to fund fully the recent pay award for nurses and other health service workers.

Littlewoods, which receives about three-quarters of the pool business, said only 2 per cent of its coupons were delivered by post.

Private mail carriers kept busy

By Lisa Wood

PRIVATE CARRIERS of mail reported strong business this weekend as businesses and industry sought to beat the postal strike.

TNT Express UK, a subsidiary of TNT, the Australian transport company, said it had doubled the volume of business it normally carried at this time of the year, with private letters joining the more usual freight of parcels and documents.

On Tuesday TNT will be meeting the Department of Trade and Industry to discuss its application for a competitive licence in order to compete with the Post Office for ordinary letters.

At present, because of the 1981 Post Office and Telecommunications Act, TNT and other private carriers have to charge substantially more than the Post Office.

Mr Alan Jones, managing

director of TNT Express, described the meeting with the department as "vital."

Throughout the country, companies have been making plans for the private carriage of mail with carriers bringing in extra staff and lorries.

Companies warned of the possibility of cancelled and lost orders because of the strike.

One publishing company with many overseas customers said: "Our foreign customers are not calmed when we say there is a strike in the UK."

The aged, disabled and jobless are the victims in the UK, according to the Federation of Clamants Unions.

Mr Percy Shelley, of the federation, said: "The failure of the Department of Social Security to respond to the after-effects of last Wednesday's strike has meant misery for thou-

sands this weekend."

Mr Shelley said Department of Social Security Offices had refused on Friday to replace undelivered Giro's for people whose cheques had not arrived by the weekend.

Sports Aid has launched an emergency operation to beat the postal disruption which is threatening entries for next week's charity fun run for needy children.

More than 2,000 banks will issue entry forms to ensure applications do not get buried among strike-bound letters.

Football pools are not expected to be badly affected as most punters return their coupons to collectors who do not use the Royal Mail.

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UK NEWS: FARNBOROUGH INTERNATIONAL AIR SHOW

UK aircraft constructors announce £386m orders

By Michael Donne, Aerospace Correspondent

ORDERS WORTH a total of more than \$550m (£386m) for UK-built aircraft were announced at the Farnborough International Air Show, which opened yesterday.

Australia and the UK ordered a total of 19 Type 145 regional jet airliners worth more than \$400m from British Aerospace; the British Ministry of Defence and South Korea ordered more than \$200m worth of helicopters from Westland of Yeovil, Somerset; and the United States and the Philippines provided new contracts for Short Brothers of Belfast.

Many other UK equipment and engine suppliers share in the deals.

Many more orders are expected to be announced at the air show this week, where more than 600 of the world's aerospace companies are gathered at the biggest Farnborough show yet held: more than 350,000 people are expected to

Westland to sell Lynx to S Korea for £118m

By Our Aerospace Correspondent

WESTLAND Helicopters of Yeovil has beaten international competition and is to supply Lynx helicopters to South Korea. At Farnborough the company said it expected to receive a so-called "effective contract" soon.

The underlying trend in the world aerospace business is one of expansion. The business is expected to amount to almost \$2,000 bn by the end of the century, covering civil and military aircraft, missiles, engines, space hardware and equipment and components of all kinds.

At Farnborough this year, the most significant new civil aircraft on display is the US McDonnell Douglas "propan" aircraft, demonstrating a new fuel-efficient engine that has failed to win airline orders but which its makers believe will eventually dominate the world's short-haul airliner market.

Short Brothers of Belfast, the government-owned aerospace company being offered for pri-

vatization, is disclosing details of its proposed FJK 44-seater twin-engined jet commuter airliner. British Airways was said yesterday to be very interested.

Boeing of the US, the world's largest builder of jet airliners, is expected to announce details today of a new version of its 767 twin-engined wide-bodied airliner that would be capable of long-distance non-stop flying on routes where passenger traffic did not justify use of larger aircraft.

On the military side, the Soviet Union is stealing the show with its MiG-29 Fulcrum combat aircraft - the fighter that the European Fighter Aircraft is being developed to counter.

Although this aircraft has been in service for some time, its appearance at Farnborough indicates the Soviet Union's desire to win wider acceptance of its aircraft industry among countries outside the Warsaw Pact.

Government to keep land stake

By Paul Cheeswright, Property Correspondent

THE GOVERNMENT is to retain a continuing financial interest in the development and exploitation of an aviation and business park to be run by the Carroll Group on 50 acres of land at the Royal Aerospace Establishment in Farnborough, Hampshire.

That breaks the normal pattern, established in a lengthy programme of surplus land disposals, of outright sale for a one-off payment.

Up to now the Government has shown a marked preference for reducing state involvement in business.

The Carroll Group was selected in 1986 by the Ministry of Defence to operate Farnborough as a civil airport and to develop in conjunction with that an aviation and business park to provide 726,400 sq ft of commercial space.

Subsequent negotiations between the Carroll Group, the Ministry of Defence (as land owner) and the Treasury on the financial arrangements to cover the project led to an agreement in three parts under which Carroll would pay the Government:

• A flat annual fee instead of

payments for individual aircraft movements;

• A capital sum for the 12-year lease of the general business part of the park where there will be 424,000 sq ft of space;

• A percentage of the rental revenue from the 233,350 sq ft of space in the general aviation sector of the business park - this also the subject of a 12-year lease.

Carroll said no figures have been disclosed for these payments but they had been taken into account in its estimate that spending on the development would be £120m over seven to 10 years.

It is the third part of the agreement, reached in spite of Treasury opposition, that marks the change in government practice and gives the Ministry of Defence a continuing stake in the commercial success of the park.

In the negotiations the Treasury evidently held out for a single capital payment from Carroll and no continuing role in the project for the Ministry of Defence.

The outcome of the negotia-

tions suggests that some government departments are prepared to follow the example of state agencies such as urban development corporations in sharing the profits of private-sector property developers.

Recent land sales by the London Docklands Development Corporation to property companies have contained clauses that provide for payments related to the completed value of developments built on the land.

The Teesside Development Corporation has made clear that it will take an equity stake in developments on its land.

The agreement between the Government and Carroll Group follows a practice adopted by local authorities concerned to increase their income.

Newcastle City Council, for example, has a joint venture with Capital & Counties to run the Eldon Square shopping centre.

Manchester City Council has recently established a property development company with the Manchester Ship Canal Company.

Soviet transporter aborts first takeoff

THE WORLD'S largest transport aircraft, the Soviet Antonov An-124 Condor, weighing 405 tonnes, aborted its first public takeoff at the Farnborough International Air Show yesterday afternoon only seconds after starting its takeoff run.

A small explosion was heard as the aircraft began to move. The pilot abandoned the takeoff run and continued to roll very slowly towards the end of the runway.

Airbus Industrie to decide on enlarged A320 at end of year

By Michael Donne

AIRBUS INDUSTRIE, the European aircraft manufacturing group, expects to take a formal decision around the end of this year on developing an addition to the Airbus family, the stretched version of the A320, seating 185 passengers.

Mr Jean Pierson, president of Airbus, said at the Farnborough International Air Show yesterday that the company was preparing a report for its supervisory board, which comprises representatives of its British, French, West German and Spanish partner companies. The report would be ready at the end of this year with the hope that the board

would take its decision early in 1989.

The stretched A320 is intended to meet the demands of airlines that want a bigger version of the successful A320, which seats 150 passengers. Sales of the A320 to date amount to 319 aircraft.

Mr Pierson also said discussions with McDonnell Douglas of the US on possible collaboration between them were still in progress, but there would be no early announcement.

The stretched A320 is one of several projects under discussion for possible collaboration, and the fact that Airbus itself is now poised to go ahead with the hope that the board

that venture may help to accelerate any agreement between the two companies.

Mr Pierson also said that with firm sales to date of 811 Airbus models of all types, it was planned to raise production to between 15 and 20 aircraft a month by the early 1990s to meet an expected annual turnover of around \$12bn (£7.12bn).

Mr Pierson also said total sales amounted to 20 per cent of the world market for jets with more than 130 seats, and that he hoped the Airbus group, including its partner companies, would show profit on the Airbus venture by 1989.

Rolls-Royce goes ahead with high thrust jet

By Michael Donne

ROLLS-ROYCE, one of the world's "big three" jet engine builders, is now fully committed to developing its new higher-thrust L model of the RB-211-524 engine, and will build it even if the company does not win government launch aid for the venture.

Rolls-Royce has asked the Government for £100m in aid, about a third of the estimated overall development cost of about £300m.

So far, there has been no formal technical and financial response, but detailed discussions continue, and Rolls-Royce is confident that support will be forthcoming. If it is, it will be repayable through a loan on sale.

The need for Rolls-Royce to press ahead with the L engine, which will have a power output of 67,500 lb and above, was confirmed at the air show yesterday by the announcement of General Electric of the US that it had decided to develop a competitive engine, the CF6-80 E1, of 65,000 lb thrust and upwards.

Such "super-power" engines are needed to power the forthcoming generation of bigger and heavier airliners, such as the 330-seater short-to-medium-range Airbus A-330, and bigger versions of the long-range Boeing 767 twin and the three-engined McDonnell Douglas MD-11.

Pratt & Whitney, which has a big engine of its own, the PW-4000, has yet to announce a bigger-thrust version but is expected to do so this coming week.

Ministers delay talks on US

By Guy de Jonquieres, International Business Editor

MINISTERS from the four governments involved in Airbus - Britain, France, West Germany and Spain - have been forced to postpone a meeting scheduled for the Farnborough air show this week to discuss the dispute with the US and to review plans for reorganising the Airbus programme.

In May the ministers pledged to implement by the end of this year a report by four independent "wise men" on ways to increase Airbus' efficiency. The report said the programme must be given a stronger management structure and made more commercial.

It said that unless the changes were made urgently, Airbus might founder on uncontrollable losses, which have been aggravated by the weakness of the dollar, the cur-

rency in which aircraft sales are priced.

However, several of the companies involved are believed to be resisting the report's proposals which, they fear, would require them to surrender power to the recent Cabinet reshuffle.

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BAe chief hits at McDonnell Douglas

By Lynton McLain

THE RELUCTANCE of McDonnell Douglas to give up its aircraft control technology and accept modern technology is the main obstacle holding up a link with the European Airbus Industrie group, Sir Raymond Lygo, the managing director of British Aerospace, said yesterday.

"We are starting to produce sets of wings for Airbus at the rate of up to 20 sets a month. We are moving almost the whole company's aircraft production from two-shift to three-shift working. At the same time, cash flows are emerging as the capital employed to meet the acceler-

ating Airbus order book rises, giving a cash flow problem until the aircraft are delivered."

British Aerospace yesterday announced yesterday orders for a further 19 BAe 146 regional jet airliners valued at more than \$400m (£227m). Professor Roland Smith, chairman of British Aerospace, said yesterday.

"The problem with McDonnell Douglas is that it will not accept modern fly-by-wire control technology," he said. "If it did, we would not sell any more of its existing airliners such as the MD-80, which does not have the advanced electronic controls that are standard on

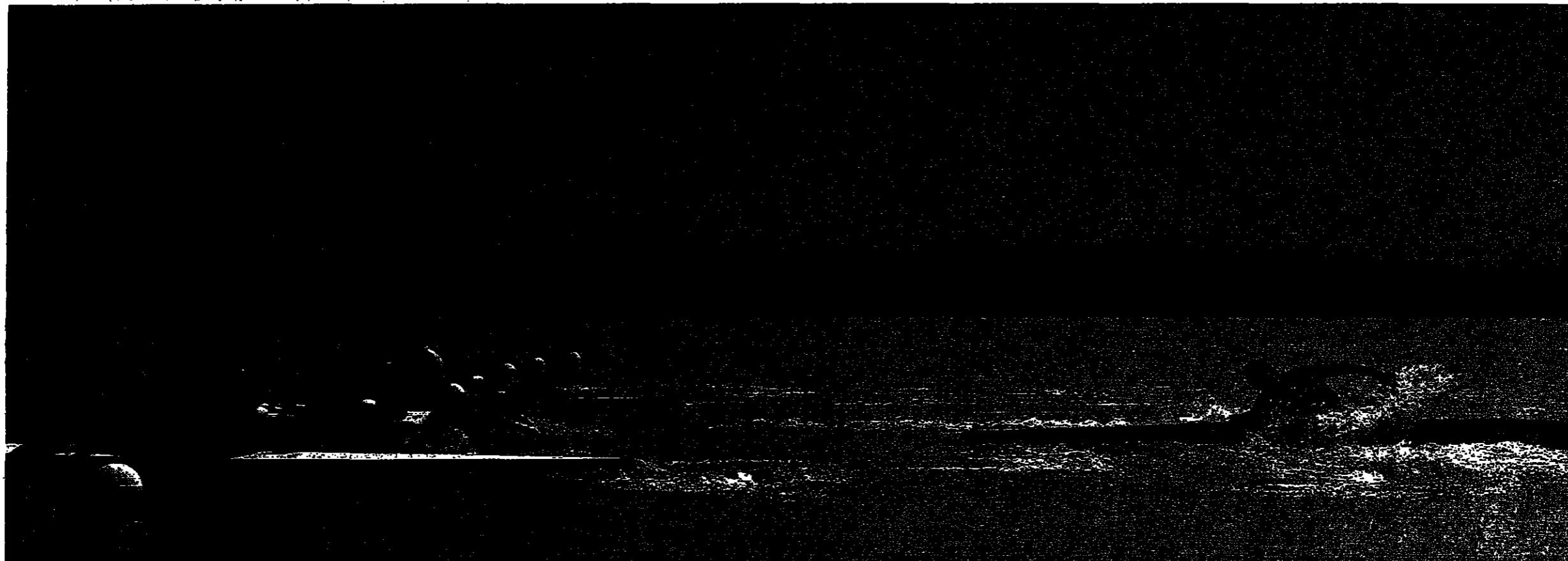
SHORT BROTHERS, the state-owned Belfast aerospace company the Government wants to privatise, is expected to ask the Government for up to £23m in launch aid for the proposed Short FJK, a 40-plus seat, twin-turbfan airliner, Mr Roy McNulty, the company's managing director, said yesterday.

The company is in the final stages of the design of the proposed commuter and feeder airliner.

Short may ask for £83m aid for FJK

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UK NEWS

Threat to divert £180m order for waste ships

By Kevin Brown, Transport Correspondent

A LONDON businessman who wants to order up to 150 ships from British Shipyards' Sunderland yards, which face closure, plans to offer the contract to Harland and Wolff, the Belfast shipyard, if the Government refuses to accept his conditions.

Mr Alex Copson, the inventor of a revolutionary new class of waste disposal ships, has asked the Government to hand over North East Shipyards' two yards without charge and pay the 2,300 workers for up to 18 months.

However, he has undertaken not to seek subsidies for the ships from the Government's Shipbuilding Intervention Fund. At an estimated contract price of \$100m (£59.5m) a ship, that would save the taxpayer up to \$28m a ship.

Mr Copson said he would switch the order to Harland and Wolff if his offer for NESL was rejected by the Government, and intervention fund subsidies would then be sought to build the ships.

If Mr Copson's claim to have identified a potential market of up to 150 ships was proved correct, the cost in intervention fund might reach \$4.2bn, although subsidies are not guaranteed.

NESL, which has no orders, has been put up for sale by the Government as part of the break-up and privatisation of British Shipyards.

The NESL yards face closure unless a private-sector buyer is found by the end of September.

Mr Copson plans to use

NESL to build a fleet of technologically advanced "bucket ships" which would dump dredged spoil, sewage and other waste in the virtually inert waters of the deep Atlantic.

Under his proposals, NESL would be run as a new company, Copson Shipyards. The orders would be placed by a second company, Global Pollution Control International. Both companies are controlled by Mr Copson.

Mr Copson plans to apply on Tuesday to the Ministry of Agriculture, Fisheries and Food for a licence to use the ships under the terms of the dumping conventions of the International Maritime Organisation.

However, there is some doubt about whether it is technically possible for the ministry to award licences before the deadline for bids for NESL at the end of this month.

Mr Copson said he would ask the ministry to issue a temporary licence, if necessary, in order to allow the project to go ahead.

His proposals, which are strongly backed by the shipbuilding unions, were given added support by Mr Jim Slater, president of the National Union of Seamen, a leading Greenpeace activist.

Mr Slater said the bucket ships were significantly more sophisticated than existing waste disposal vessels and would help to cleanse the shores of industrial countries of pollution.

Posgate sent for trial

MR IAN POSGATE, the former leading Lloyd's insurance underwriter, Mr Kenneth Grob, former chairman of the insurance broking firm Alexander Howden, Mr Jack Carpenter, former deputy chairman of Alexander Howden, and Mr Colin Hart, a former Lloyd's underwriter, have been sent for trial at the Central Criminal Court, Old Bailey.

The committee proceedings

for the four men, who face a long list of fraud and theft charges, were concluded on Friday.

One of the most serious charges is that against Mr Grob of the theft of \$1.13m (£670,000) from Alexander Howden.

The trial, which concerns events in 1982 and before, is unlikely to start before the middle of next year.

Relentless tread of shoe imports

Alice Rawsthorn on why the footwear industry is feeling the pinch

AT 10AM on Friday, Lambert Howarth summoned the workforce of its Lancashire footwear factories to announce its first big round of redundancies since the recession of the early 1980s.

For the last year or so, the 2885m UK footwear industry has been battling against an influx of imports. Until now the cuts and closures have been concentrated among the small shoe makers. The larger manufacturers, like Lambert, have tended to restrict cost cutting to short-time working and natural wastage.

Unless there is a significant improvement in trading conditions, other leading footwearers will be forced to follow Lambert by resorting to large-scale redundancies. Moreover, the long-term future of the industry will be in jeopardy.

The trouble began last autumn when the pound rose against the US dollar on the foreign exchange markets. As sterling strengthened, it became increasingly difficult for UK shoe makers to compete against the low-cost producers of the Far East, where currencies are linked to the dollar.

Unlike the clothing sector, which is sheltered from surges of imports by the quotas negotiated under the Multi-Fibre Arrangement, the footwear industry is wholly exposed to fluctuations in international trade. The influx of imports accelerated from autumn onwards and the level of import penetration leapt from 58 to 64 per cent last year.

The pressure was most intense among makers of women's shoes, which account for half of UK production. The

UK FOOTWEAR MARKET		
UK Output*	Imports*	Import penetration
1980 150m	223m	47%
1981 123m	241m	53%
1982 119m	244m	55%
1983 119m	247m	56%
1984 122m	288m	61%
1985 128m	288m	55%
1986 120m	276m	56%
1987 120m	278m	64%

*Pairs of shoes
Source: British Footwear Manufacturers Federation

children's sector is sheltered from imports, while men's shoe manufacturers have benefited from healthy exports and the fashion for traditional English breeches.

But the women's shoe companies also suffered from a fall in demand for classic court shoes, a UK speciality, and vulnerability.

Lambert had to rely on profits from importing to compensate for losses in manufacturing in the first half of the year. It stopped recruiting a year ago — the workforce has since fallen by 200 to 1,250 — and introduced short-time working in the spring.

For decades, footwear retailing has been dominated by the British Shoe Corporation, a Sears subsidiary that includes the Dolcis and Freesman Hardy Willis chains. But the growth of new forces, such as Next, is beginning to erode BSC's position.

Moreover, other retailers have been reviewing their approach. Marks and Spencer, which buys about 5 per cent of the UK industry's output, has been moving upmarket by selling more leather shoes. That has prompted some M and S suppliers to change to new product areas and the pattern of trade has been temporarily disrupted.

Almost all the women's shoe makers, large and small, saw output fall last year. In the 1980s the sector has become increasingly polarised between a few, very

large, highly automated companies and hundreds of small family businesses.

So far, the small companies have borne the brunt of the slump. But after a year of falling output, the larger companies are becoming increasingly vulnerable.

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A month ago, Lambert announced the closure of a factory in Bacup, Lancashire. The machinery and most of the workforce will transfer to another plant in Burnley. On Friday it asked for 50 redundancies at its three remaining factories.

Similarly the FI Group and C & J Clark have experienced short-time working. Clark has attempted to cut costs by introducing an "Operation Thrift" economy programme. It has also switched production at one factory from women's to children's shoes.

The only solace for manufacturers is that there are signs that import penetration may be

slowing down. In May and June, the last two months for which statistics are available, the influx of imports fell by a few percentage points.

The consensus in the industry is that it is too soon to tell whether this slowdown represents the start of a long-term recovery. The dollar has rallied in recent months, but there has not yet been enough time for retailers to respond. Moreover, the underlying trends — falling output, less overtime and more short-time working — are still dispiriting manufacturers.

Mr Michael Fielden, director general of the British Footwear Manufacturers Federation, is concerned that the "recovery" is indicative of an increasing financial problem of prediction. He fears that the UK industry of the future may be busy during the summer making winter shoes but idle in winter as almost all summer shoes would be imported. That would present severe cash-flow difficulties for the shoe companies.

In the short term, the footwear companies are planning their hopes on the possibility that the European Commission will impose quotas on imports from Taiwan. In the long term, they hope to benefit from the trend for retailers to forge closer links with faster, more flexible suppliers.

Yet all the manufacturers are acutely aware that it is notoriously difficult to recover lost sales from imports. At best, the pressure from imports will abate and the industry will return to stability. At worst, conditions will deteriorate and the cuts and closures will continue.

Grand Metropolitan development director

From October 1 Mr Malcolm N. Ross is appointed business development director for GRAND METROPOLITAN. He was with Associated British Foods, where he was managing director of the retail and catering division of Allied Bakeries. Mr David Woodward, director of planning, Allied Bakeries, will in addition become director of retail and catering.

Mr Dennis Wallis has been appointed to the board of GRESHAM UNDERWRITING AGENCIES. He will be the underwriter for a new aviation syndicate 1122 which will commence underwriting from January 1.

Mr David Vines has been appointed manufacturing director of TBN's UK automotive parts subsidiary, Coopers Poynt. Mr Vines, manufacturing director, disc brake parts, at Ferodo, another subsidiary.

Mr R.J. Newell and Mr J. Tribe have been appointed to the board of NEWGATE CONSTRUCTION.

Mr Norman Shapley has been appointed financial director for FERANTI COMPUTER SYSTEMS. Brecknell, an project director, to head work on the command system for Type 23 frigates. He was chief of the Ministry of Defence's strategic systems executive.

Mr DAIWA EUROPE has appointed Mr Paul Nelson to the new post of executive director in charge of fixed interest sales. He was an executive director in charge of Eurobonds and gilts at County NatWest Securities.

Dr Charles W. Main has been appointed secretary of THE INSTITUTE OF BANKERS IN SCOTLAND.

He is senior lecturer in economic history at Glasgow University.

Mr George Zaffinger, senior vice president, has been appointed general manager of FIDELITY BANK's London branch, and head of the bank's London group. The bank is a subsidiary of Fidicor Inc., of the US.

Mr Bob Kempton and Mr David Hughes have been promoted to directors of BAKER TILLY MANAGEMENT CONSULTANTS.

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A preposterous suggestion, you may say. Quite ludicrous. But before you dismiss it as pure fiction, consider the following facts.

The rate of information growth is doubling every five years. Currently, 6000 new scientific articles are published every week.

An explosion of facts and figures shattering the dreams of anyone hoping to become a Jack-of-all-trades. Indeed, being the master of just one is now a race where the finishing line keeps moving.

Skills and knowledge that may have taken years to acquire can be out of date almost overnight.

Think of the ship designers in the north-east who have had to turn their hand to designing oil rigs.

The plant breeders who have had their world turned upside down by the advent of genetic engineering.

The textile designers who have had their crayons replaced by computer keys.

Formal qualifications on their C.V.'s, though important, would have given little indication of their capacity to accept and adapt to change.

WILL TODAY'S GRADUATE BE WEARING A DIFFERENT HAT IN THREE YEARS' TIME?

Of course, if we expect people to have a more flexible, adaptable outlook on work, we must also expect the same of their employers.

So companies must be prepared to do more than just give time off for occasional conferences. They must also allow time off to attend business schools and retraining courses. And maybe more.

Some companies do already. But should we follow the example of countries like Sweden where mid-career breaks of several years are not uncommon? In fact, is it time we reappraised our attitude towards career patterns entirely?

Traditionally, the long serving employee has been held up as the shining example. And, of course, many years of experience in a company can be invaluable.

But in today's fast changing world perhaps we should look more favourably on frequent job changes and regard them as the need to face fresh challenges.

That, in itself, is a challenge that business may soon have to face.

Indeed, in our view, training, or lack of it, is very often at the root of many companies' staffing difficulties.

Yet, sadly some firms still see training as a side issue when compared with, say, providing plant and finance.

According to the latest (1985) MSC figures, the average company spends a mere 0.15% of its turnover on training.

As for ourselves, this year training will cost us some 10% of our income. It's a sizeable sum. But it's one we would not spend unless we knew it would repay us fully in the years to come.

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Accountants. Advisers. Consultants

MANAGEMENT

At long last British Petroleum's sortie into the mining and metals business, until recently described by analysts as an unmitigated disaster, shows every sign of coming good.

It has taken much patience, considerable pain in terms of jobs lost, and huge investment, but BP Minerals International is on course this year to produce a profit large enough to make a difference even to BP, Britain's biggest company.

BP Minerals brings together all the group's mineral interests except for oil, gas and coal.

Its assets are drawn mainly from two acquisitions: Selection Trust, the London-based mining finance house taken over in 1980 for £407m; and Kennecott Corporation, one of the world's biggest copper producers, which changed hands in 1981 for \$1.8bn.

Patrick Gillam, the BP managing director responsible for BP Minerals, says candidly: "If you ask me whether we would buy these two companies at those kinds of prices all over again, the answer is: 'Definitely no'."

So why did BP first dig itself into this particular hole and why has it taken so long to struggle back out again?

BP was not the only oil company to go searching for mining and minerals assets at very high prices in the second half of the 1970s when the industry became anxious about the way oil and gas reserves were rapidly being depleted.

What set BP apart somewhat was that it started making acquisitions at a time when some oil companies were already ditching their investments after discovering there was a much lower rate of return on metals than on their mainstream products.

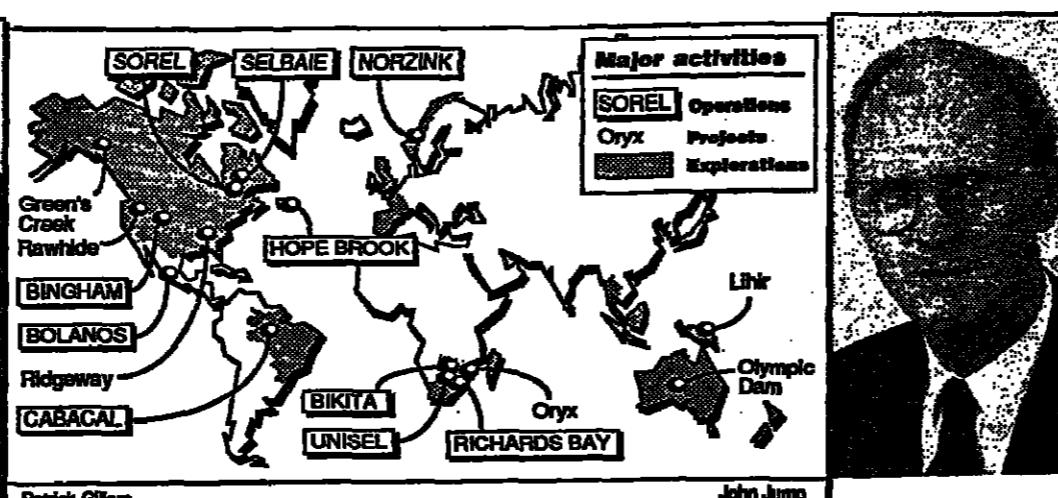
However, BP persevered and attempted to turn round its mining interests after the collapse in world metal prices in the first half of the 1980s. The other oil groups have mainly quit by selling or closing down their operations.

BP had started its diversification in a relatively quiet way in the late 1970s by setting up an in-house minerals unit which, among its first investments, took a 49 per cent stake in the Olympic Dam development in South Australia, discovered by BP's partner, Westmin Mining, in 1975.

The key to understanding this investment is that Olympic Dam has huge reserves of uranium (as well as copper, gold and silver) and BP was very much on the look-out for the alternative energy supplies



Patrick Gillam



John Jump



BP Minerals: climbing out of the hole it dug for itself

Kenneth Gooding reports on the improved prospects for the oil group's subsidiary

it believed would be needed as oil ran out.

BP went on a spending spree and bought Selection Trust, a mining finance house which was developing some small mines and had some decent oil holdings.

John Jump, BP Minerals' chief executive, recalls that the original intention was to apply BP cash and resource technology to push Selection Trust into the front rank of world mining houses by grass-roots exploration.

But metals prices collapsed and stayed down so Selection Trust did not generate the cash to fund its exploration projects.

Meanwhile, in 1978, BP acquired a majority shareholding in Standard Oil Company of Ohio (Sohio), a group which had also diversified its base into chemicals, coal and minerals.

In 1981 Sohio was used to acquire Kennecott, owner of the Bingham Canyon copper-gold mine in Utah and with interests in several other mineral deposits, primarily in the US.

But closer examination revealed that about \$1bn would be needed to modernise Bingham's antiquated equipment — an investment BP was in no mood to bear when the copper price looked likely to stay at a rock-bottom level for ever more.

Gillam, who took over responsibility for the minerals operations in 1982, says it

immediately became apparent to him that the Selection Trust and Sohio minerals operations needed to be joined together so that they could share technology, exploration and development costs and for BP to have a world-class business.

But that was not possible — except in some form of cumbersome joint venture — until 1987 after BP took full control of Sohio.

The concept of a "BP Minerals International" fitted in well with BP's new group structure which it had employed since 1981 when it reorganised into six business streams operating worldwide. Each is run as a separate business in its own right, each with its own board (but without any non-BP directors).

Each business is controlled by way of an agreed ten-year strategic plan, an agreed five-year development plan and an annual operating plan against which performance can be judged.

Gillam points out that, as BP "is looking forward ten years, we are more interested in qualitative objectives rather than quantitative ones. We measure businesses by selective excellence or of being among the best in what you do".

BP Minerals has shrunk in size following some substantial disposals of non-core operations and its turnover dropped from £785m in 1983 to £465m last year. But it is a key player in several industries,

including copper, gold and titanium dioxide.

Indeed, BP Minerals is the world leader in the supply of titanium dioxide feedstocks to the pigment industry with 40 per cent of the market. The use of titanium dioxide has grown steadily to replace competitors such as clays and kaolins because it provides white finishes of superior quality and of less cost than obtainable elsewhere.

Consequently BP's QIT-Feret Titanium company, part of Kennecott and based in Montreal, Canada, has been making annual operating profits of between \$80m and \$100m for the past three years to offset losses in other parts of BP Minerals.

Another important string to BP Minerals' bow is the Olympic Dam project, potentially one of the world's major underground mines.

It is expected to begin operations this autumn and in the first five years annual production is forecast to be about 46,000 tonnes of copper, 1,900 tonnes of uranium oxide and 20,000 troy ounces of gold. This should increase significantly during the second production phase scheduled for the early 1990s.

BP gained its 49 per cent shareholding from Western Mining in return for providing all the finance — about A\$800m — needed for the project.

Meanwhile, Bingham Can-

yon, which was closed in 1986 because of the low copper price, has been brought back to life by way of a radically-revised \$400m modernisation scheme.

Analysts reckon that BP has achieved 80 per cent of the previously-planned improvements for only a third of the originally projected cost.

And — against a one-time price of \$1 a lb — copper will be produced at nearer 20 cents than 30 cents a lb once the new equipment is running as scheduled in October.

A significant contribution to that cash cost figure, one of the lowest in the world, comes from the 500,000 troy ounces of gold a year Bingham will produce as a by-product of the 160,000 tonnes of refined copper. In the usual minerals industry style, BP takes in "gold credits" when assessing the cash cost of producing the copper and assumes a price of \$400 a troy ounce for the gold compared with the recent market price of between \$405 and \$451.

Profit on the gold will be shared by another BP Minerals' business, BP Gold Company, which will buy Bingham's yellow metal at the cash production cost of about \$195 an ounce.

BP Gold incorporates most of the group's gold mining operations except for those in South Africa and Canada which have been excluded so as to give the company a clear

image as a US gold producer. The group is to float 15 per cent of BP Gold on the New York Stock Exchange later this month to raise more than \$200m.

Jump insists this is not part of the BP group's current round of asset sales to reduce debt but is a typical minerals industry action to spread some of the risks that mining inevitably involves.

The potential jewel in BP Gold's crown and a mine which could catapult the company into the first division of world gold producers — those with an output of 1m ounces or more a year — is Lihir Island in Papua New Guinea. BP Minerals is spending \$60m on early work at Lihir and, if a decision to develop a mine is given early next year — by no means a certainty — Lihir should produce more than 500,000 ounces annually in the early 1990s.

BP Minerals' investment in these and other projects has been costing more than \$600m a year and expenditure will continue at that level in 1988. Then it should ease back because, apart from exploration expenditure — currently running at an annual \$40m and covering projects in 16 countries — only Lihir and a potential project in Madagascar for production of beach sand ilmenite deposits will be left to pay for.

What do these developments add up to on the bottom line?

From 1983 to 1985 inclusive, BP Minerals sustained operating losses totalling \$377m. There was a modest operating profit of \$42m in 1986 and one of \$125m last year.

Thanks to the dramatic increase in the price of copper which has been selling at about \$1 a lb since last autumn, and growing gold output, QIT is not the only profit-making unit within BP Minerals in 1988.

In the first quarter of this year BP Minerals' operating profit jumped to \$105m. This gave a return on capital employed of 13.3 per cent compared with 7.9 per cent for the whole of last year.

Prospects for the rest of 1988 look bright.

Gillam says: "It has given us great satisfaction to bring together the minerals assets of Selection Trust and Standard Oil into one, world-class group. We have brought the business to a point where it is a reward and successful one for BP."

The parent group has yet to make up its mind about floating part of BP Minerals on the stock market, but Gillam makes it clear that the subject is now very much on the agenda.

Higher severance pay, lower salary

Michael Skapinker on the likely fate of redundant US managers

DBM dealt with found new jobs in under 4 months.

Severance payments made to redundant managers have increased slightly, from 6.5 months of pay seven years ago to 6.7 months today.

Out-of-work US managers are younger than in the past, according to a study by Drake Beam Morin, a large firm of outplacement consultants.

Consequently redundant managers and their firms find new jobs more easily.

Twenty-five per cent of DBM's clients had jobs in general management before they were dismissed, but only 20 per cent of their clients moved on to similar positions. Those who did get new general management jobs had to accept lower salaries.

Sales and marketing jobs proved easier to find. Although only 15 per cent of DBM clients had been in sales and marketing before they lost their jobs, 21 per cent found new jobs in these areas.

1988 Drake Beam Morin Executive Outplacement Study, 100 Park Avenue, New York, NY 10017. Free.

Business COURSES

Structured systems analysis and design workshop, London, September 26 and October 3.

Fee: For delegate £245; additional delegates £200. Subject to VAT. Details from: The Information Resources Centre, 2 The Chapel, Royal Victoria Patriotic Building, Finchley Grove, London NW12 3SX. Tel: 01-871 2546; Telex: 299104 MONT INT G; Fax: 01-871 3955.

Electronic financial services in the 1990s, London, October 20-21. Fee: £220 plus VAT. Details from Financial Times Conference Organisation, 126 Jermyn Street, London SW1Y 4UJ. Tel: 01-925 2322; Telex: 27347 FTCONF G; Fax: 025 2123.

Introduction to operational audit, Amsterdam (September 21-22). Tel: 01-238 4050; Telex: 888370. Fax: 01-238 2364.

Managing business information systems, Cranfield, October 23-28. Fee: £280 + accommodation. Details from Conference Organiser, Business Research International, IBC House, Canada Road, Byleset, Surrey KT14 7JL. Tel: 01-631 3214.

Diverse businesses: how to add value from the centre, London, October 17. Fee: £230; individual/associate members £172.50; corporate members £143.75. Details from the Strategic Planning Society, 15 Leigave Square, London SW1X 8PU. Tel: 01-355 0246.

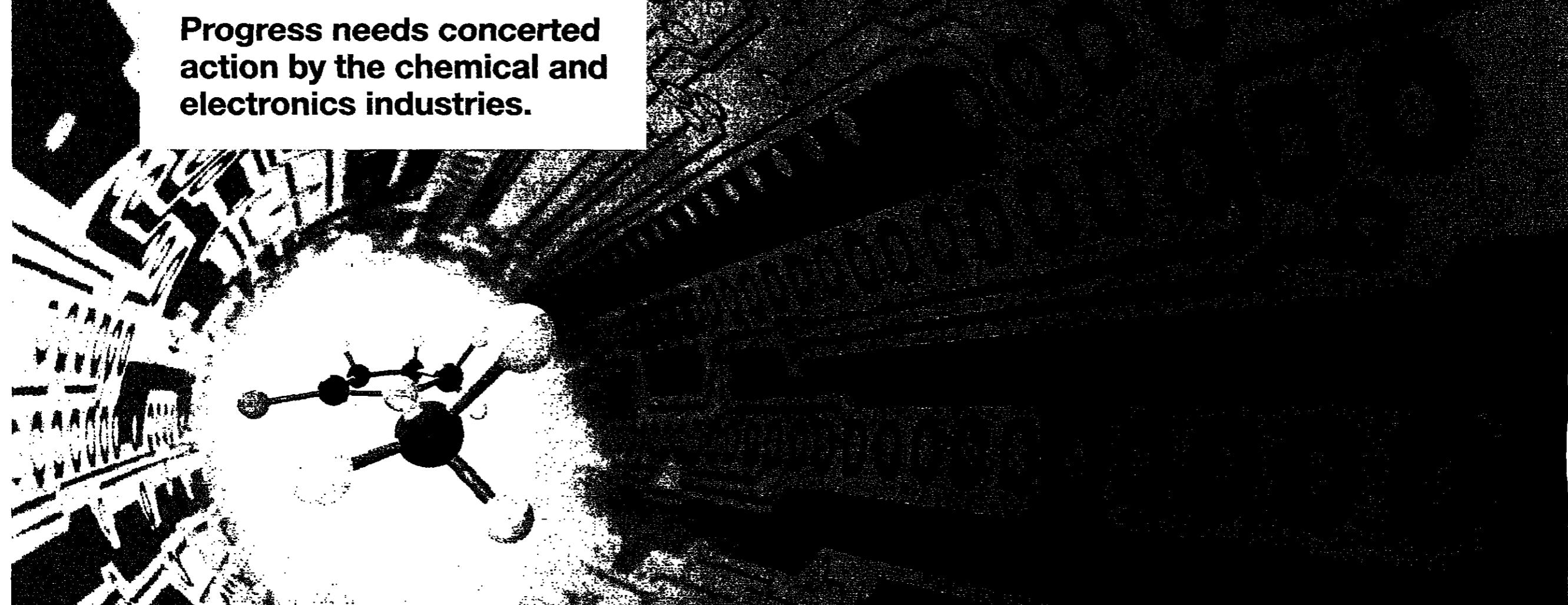
Winning strategies for the 1990s, Amsterdam, October 17-20. Fee: Members £195 or £198; non-members £255; accompanying persons (of members) £120; (of non-members) £150. Details from: Bertus Brill PCC, Parkweg 2, 2771 AJ Veenburg, The Netherlands. Tel: (011) 863659.

Investor relations, London, October 11. Fee: £281.75. Details from Jenny Kerr, International Business Communications, Bath House (4th Floor), 35 Lombard Street, London EC3A 2BX. Tel: 01-238 4050; Telex: 288370. Fax: 01-238 2364.

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Progress needs concerted action by the chemical and electronics industries.



Dialogue and cooperation — interdisciplinary efforts which go beyond the conventional frontiers of existing knowledge and technologies are essential requirements for progress. It is often the interlinking of knowledge and ideas from different fields which opens the door to new, multi-disciplinary solutions to problems.

We at BASF have deliberately adapted to this challenge by the active interplay of knowledge and knowhow between chemistry, physics, biology, medicine and many other areas of knowledge and technology.

Here are some examples of the interplay between chemistry and electronics. The dramatic advance by the electronics industry

would have been impossible without chemical research. BASF has played its part in this development with achievements often made in close cooperation with electronics companies. For instance, we supply chemicals used for the manufacture of microchips; special polymers for printed circuit boards; photoresists for the manufacture of printed circuits; and materials for protecting highly sensitive electronics components.

The utilization of intelligent electronics is essential for problem solving in our areas of operation. Powerful computers are used to search for new active substances in medicine. Laser technology employing fibre optics open-

ing the way to new processing techniques for the improved dosage control of vitamins. New biotechnological processes operate by means of intelligent electronic control, and computer-aided design helps to extract the maximum benefit from the possibilities offered by new construction materials.

BASF's knowhow in chemistry and electronics is only part of what makes us a worthwhile partner for our customers throughout the world in their search for new solutions to manufacturing problems.

Our multidisciplinary approach enables technical problems to be viewed through a far wider spectrum giving greater possibilities

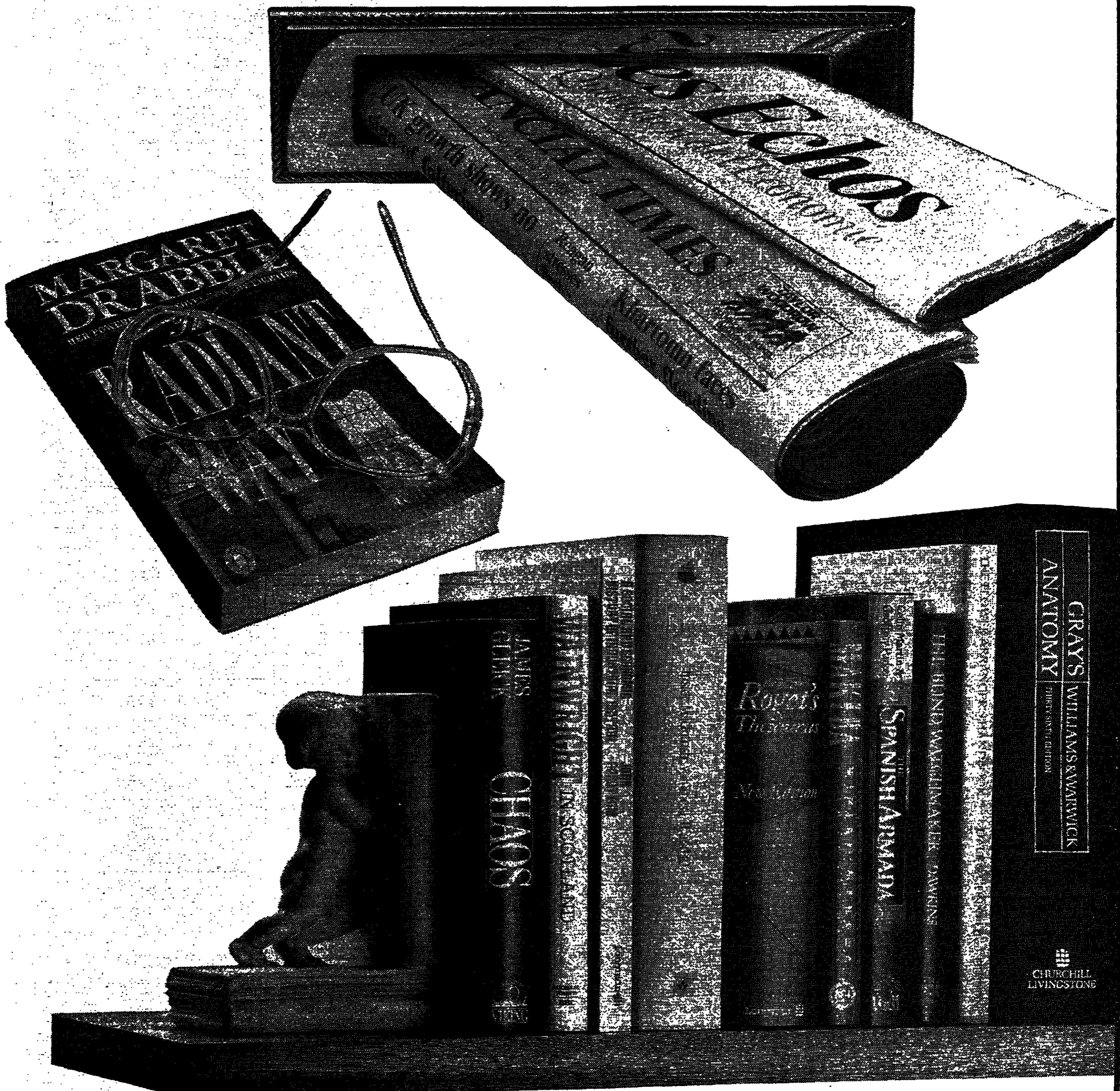
than could otherwise be achieved. They go far beyond the initial problem and stimulate new thought in people who are working in a wide variety of disciplines over an extensive range of products and markets.

BASF Aktiengesellschaft · D-6700 Ludwigshafen

The Spirit of Innovation.

BASF

How a worked-out chalk pit in Essex helped develop a world of publishing opportunities.



We sold 80 acres of our West Thurrock estate for an important shopping centre, which could earn Pearson a profit of more than £60 million.

A rich harvest for a worked-out chalk pit.

Like our recent £49 million profit on the sale of Whitehall Petroleum, it's an example of Pearson's ability to spot opportunities, and realise them to help develop our major business areas.

We have made two important publishing acquisitions this year: US-based educational and scientific publisher Addison-Wesley, and the French financial paper 'Les Echos'.

It's all part of Pearson's strategy of developing our powerful businesses, capable of competing in global terms with quality products.

To open up a world of profitable opportunities.

— PEARSON —

ARTS

Few fringe benefits

EDINBURGH FESTIVAL

As standards sink slowly in the Firth of Forth, it becomes harder to tell the Fringe from the official offerings. Or so I reflected in the last few days of the Edinburgh International Festival, sitting through some lugubriously well-meaning chit-chats in a church-cultural centre as ladies in hats and gardeners' hats shooed their maracas at sallemen across the stage. Who shook right back and added a defiant trill on the flute. C'est magnifique mais ce n'est pas Europe.

Which is nevertheless what it was billed as: Shared Experience presented *The Bacchae* at St Bride's Centre; and from the initial drearily-intoned announcement of his divinity by a dowdily uncharismatic Dionysus, Nancy Meckler's siren and badly-acted production is all one could have once hoped to avoid on the Fringe.

The benign appearance half-way through the wet madness of Frank Dunlop, on the affable patrol that makes him the most accessible Festival Director ever, reminded us that this was an official Festival event. The decent studio-size classics that Ms Meckler executed like Leicester never approached international festival level.

This glib production - Telles' apologetic "Ho there! Who keeps the gate?" was the most unassimilable entrance ever made by a transsexual seer - ranges from the expressionless through the unintentionally comic (*The Bacchae* drops shoes and handbags in a heap to dance round, like the girls hopping together at a provincial disco) to the embarrassing writhing panting and over-motoring from a drama therapy class.

Savaged from this messy and monotonous modernism is the most incisive Pentheus since the young Sean Connery muscled through the part in Oxford years ago. Peter Hamilton Dyer is intelligent, lucid, emotionally powerful: the sullen flood and row of pyrex pudding-basins for the maenads to freshen up in (design: David Roger) linger inexplicably in my memory.

Shared Experience is a touring company. They may be hitting your area next.

That perennial Fringe First winner John Godber was back with Hull Truck and a repertoire of favourites. This year's novelty, *Salt of the Earth*, illustrated Godber's strengths as director: his lack of condescension towards his desire to teach "little" people; and an ability to portray the remembered pleasures that inform a culture without provoking the sniffy accusation of "nostalgia" from those who see any non-judgemental depiction of the past as an evasion of theatrical duty. That said, the homely, seem-of-warmth-and-wisdom mined by his Yorkshire folk with their comic cries of "Bloody hell!" is beginning to run thin.

The Shadow Syndicate produced authentic Jamesian shivers in their *Torn of the Screen* on a white-dressed stage with much use of projected film and mirrors; Jon Pope's production and Adrian Johnson's ominous sound-track made up for dodgy acting - notably a Flora who clumped about simpering like a retarded Shirley Temple; and a Miles who depicted ambivalent childish innocence by spile-like shambling and an idiot grin.

In *Grand Magic* at the Assembly Rooms, Eduardo De Filippo trespasses on Pirandello territory in this tale of a stiff-necked man tricked by a mountebank conjuror into believing everything is an illusion, from the pangs of hunger to his worried family and his deserting wife. When the latter comes back after four years, he refuses like Pirandello's Henry IV to acknowledge the reality of this archetypal image of the returning wife. He retreats irremediably (but how knowingly!) into the conviction that the magical experience from the hotel terrace years before is continuing and that real-time is suspended. One for collectors, but in John Bettie's production a very rough and ready performance.

Martin Hoyle

Amsterdam Concertgebouw

ALBERT HALL

The Amsterdam Concertgebouw Orchestra visited the Proms on Friday and Saturday under its new principal conductor, Riccardo Chailly. The first of its programmes consisted of a full and rather brief first half - Mozart's *Idomeneo* overture and Piano Concerto No. 19 in F (K459) - and an amiable second half: the Symphony No. 3 in D minor by Bruckner.

The overture was perfectly ravishing. The orchestra's sumptuous swavity was immediately in full evidence, and one had to thrill to the vivid and characterful playing of each section: the strings as silk, the woodwind woody and immaculately breathed, the golden horns, and so on. The static figures which stand out in the short piece were memorably diaphanous.

The concerto was a quiet marvel. Raul Pynn was the soloist and played with a refinement in width and the ideal Mozartian combination of sparkle and seriousness was achieved. He rarely seemed to rise above the dynamic level of mezzopiano, yet within the self-imposed limits coinciding as it were with the dynamic range of the forte piano of Mozart's day he created a completely satisfying world of

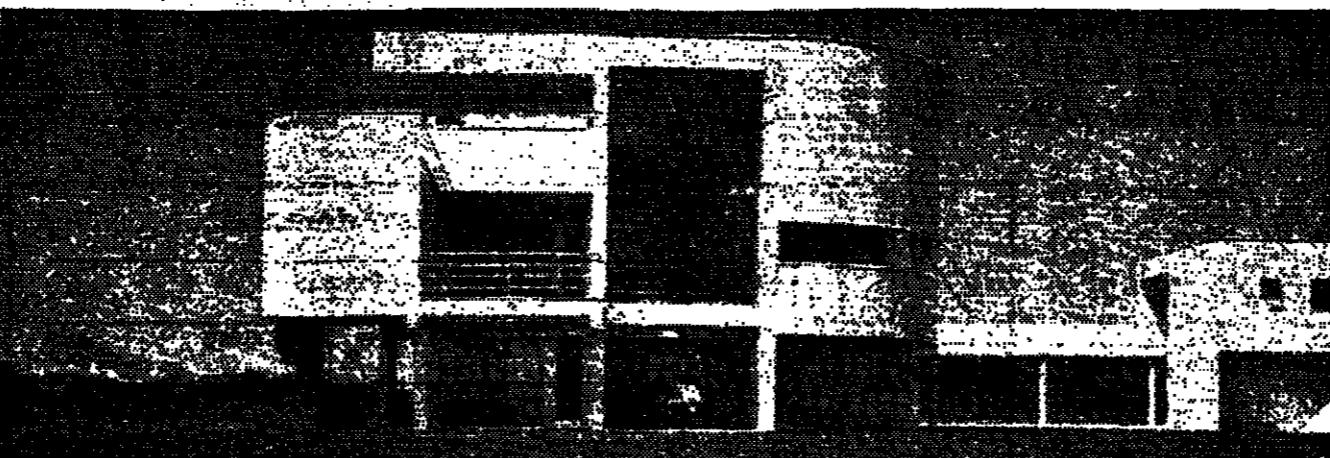
expression. His phrases were typically shaped with the sort of aristocratic panache that was always attributed to Clifford Curzon; and the way in which he sought (often visibly, listening to the orchestra) to blend the varied colours of his own part with those of the accompaniment was striking.

The general impression left was of an immensely communicative reticence, a suitably delicate but vastly virtuosic strength.

Chailly's support was stunning: the first movement was just as David Caiman in his programme note suggested, of the nature of an idyll. There were many beautiful contributions throughout from the woodwinds, and the orchestral playing was always not only exquisitely articulated, but of exactly the right tonal weight.

The Bruckner symphony, though, was made to seem too ravishing: the great concluding structure was contoured with stately intellectual skill, and the beauty of the pinches and most refined tonal resources, but an essential crackgness and mountain-edginess was missing from the result. To invert a phrase of W.B. Yeat's, gold in Bruckner is not beauty.

Paul Draper



Whiter than white: Meier's summer house in the Hamptons, spawned a string of imitations

ARCHITECTURE

Monumental task for medallist

Colin Amery on the man chosen to design the new Getty centre

On a hilltop just to the north west of the intersection of Sunset Boulevard and the San Diego Freeway in Los Angeles, site work has started on what will be one of the most important public buildings in America, the new Getty Centre. The architect is Richard Meier, this year's winner of the Royal Gold Medal for architecture awarded by the RIBA.

Meier seems to be a natural winner. He gained the commission for the Museum for Decorative Arts in Frankfurt in 1980 and won the Pritzker Prize in 1984. It was a major triumph and challenge to secure the prize of the Getty in 1984 and more recently the commission to design the new City Hall and Central Library in The Hague in the Netherlands. During September (from September 20 to October 30) at the SH Gallery, 26, Cramer Street, London, W1, the first British exhibition of Mr Meier's work will be held to coincide with the Gold Medal ceremony on

October 12. Associates to link his campus-like collection of low horizontal buildings to the landscape. The topography has clearly been an important influence on the design. The museum and its offshoots will occupy two intersecting mountain ridges, and in the ravine between will be great terraced gardens falling to a large reflecting pool. The principal material for the entire complex will be stone - an enormous change for Meier, who is famous for his all-white houses and museums clad in enamelled metal or porcelain panels.

Richard Meier was born in New Jersey in 1934 and received his architectural training at Cornell University. In 1963 he established his own office in New York having been broken in as an architect in two modernist stables, Skidmore Owings and Merrill, and Marcel Breuer. He rose to early fame with his all-white modern American houses - mostly second homes in the Hamptons or Connecticut, the product of ideas progressed through the work of Le Corbusier. They all have one remarkable quality - they meet their interior volumes almost entirely by the play of light.

Meier has a strong aversion to colour in architecture. He

said himself to be very sensitive to the exhibits. In fact there are areas of the museum where the architecture works against the displays.

At the High Museum in Atlanta - which is his glossy high-tech version of the Frank Lloyd Wright's Guggenheim, the whole point of the museum is the ramped public spaces.

Luckily the High Museum does not have a very good collection and so the museum building is itself the exhibit. But at the Getty things are very different and it has been quite a struggle to expand this architect's vocabulary to encompass more natural materials, less arbitrary geometry and simply a more enriched architecture.

Meier is the natural choice of the architectural establishment for the Gold Medal: he represents the dry, intellectual modernist approach. But he does not seem to be able to develop his real and powerful spatial skills beyond the manipulation of refined technical elements.

All his work is clear and simple though more complex than it looks: the smooth engineering combined with the layering of interior spaces produces an architecture that is distinctive but ultimately repetitive and somewhat sterile.

Meier has the most coveted

commission in the world so his critic is forced to ask, is he the right man for the job. The Getty will have an extraordinary collection, but at his Museum for the Decorative Arts in Frankfurt he has not

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FINANCIAL TIMES

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Monday September 5 1983

The abuse of anti-dumping

WHAT IS the reason for the enthusiasm with which the European Commission has resorted to anti-dumping actions in the past few years, particularly against Far Eastern exporters? Are these really no more than a way of countering unfair trading practices? Or is anti-dumping being used, instead, as a political bullet that can both curb the exports of unduly competitive Far Eastern countries and strengthen such "strategic" industries as consumer electronics?

The suspicion that the wider objectives are in mind is reinforced by the decision last week to impose stiff anti-dumping penalties on video cassette recorder imports, a decision that appears to break new ground in several ways. The case is the biggest yet to be directed mainly at South Korean manufacturing industry. Until recently, anti-dumping action against Korea was inhibited by the low value of the won, which made it hard to establish that its industry was exporting products to the European Community at prices lower than those charged at home. The finding of dumping margins of as much as 29 per cent suggests that the commission has managed to resolve that technical conundrum, at least to its own satisfaction.

Inimical to clarity

The rationale advanced for the imposition of duties also suggests that the EC has enlarged its criteria for the finding of injury. The Commission says that "the maintenance of production is essential so that it can develop by its own efforts new technologies for consumer goods of the future". In effect, anti-dumping action is now introducing industrial policy by the back door. Two questions are raised, the first being whether anti-dumping procedures are well-suited to such an objective and the second being whether the objective is itself worthwhile.

The answer to the first question is almost certainly negative. The primary concern of these procedures is to enforce "fair" competition. Furthermore, the obscure manner in which they are enforced and the room they allow for subjective judgment are inimical to clarity on so important a matter as the future of consumer electronics.

If the EC believes certain industries need to be protected

because of their strategic importance, it should tailor measures specifically to that purpose. They should be decided on the basis of a clearly articulated industrial rationale after consultation with a wide range of interest groups, above all consumers.

The second question is whether the industrial policy objective is itself appropriate. Experience is not encouraging, especially when the policy is a reactive one, as is inevitably the case for anti-dumping. Instead of governments picking the winners, the losers pick the governments.

Lame ducks abandoned

The undesirability of industrial policy has now been accepted by many European governments in the case of industries in inexorable long-term decline, such as shipbuilding and steel, where past efforts to prop up lame ducks have been largely abandoned. The belief persists, however, that high-technology sectors are exceptions.

That view can be justified only if these industries will ultimately perform effectively in international markets. Unfortunately, there is much evidence that Europe's weakness in consumer electronics is a chronic condition, stemming as much from slow adjustment to changes in demand, technology and production methods as from unfair competition.

Europe's two principal consumer electronics groups, Philips of the Netherlands and the French state-owned Thomson have recently accelerated efforts to rationalise their operations and improve their efficiency. But they have a long way to go. Philips admits to serious doubts about its own prospects and has hinted that further trade protection may be needed to ensure its long-term survival in the business.

Protection, whether provided by anti-dumping duties or other measures, imposes a heavy cost on consumers. The very least the EC needs to do is to justify its nascent consumer electronics policy explicitly, not bring it in through the anti-dumping back door. Better still, it should recall not only its past experience with promotion of "strategic industries" but also the history of failure that now motivates these particular petitioners for protection — and forget the idea altogether.

Running for the White House

IT HAS been a while since an American election campaign officially began on a Labor Day, which is today, with so little to choose between the two candidates and with so much uncertainty about the electorate's aspirations.

National polls, which have been very volatile, put Vice President George Bush for the Republicans and Governor Michael Dukakis for the Democrats in a virtual dead heat. This is good news for Mr Bush, because he had been trailing badly, and because, in a tight race, there is some built-in advantage to the Republicans in the peculiar workings of the electoral college system.

It is even better news for Mr Bush given the controversy which has swirled around his running mate, Senator Dan Quayle. Mr Bush's recovery may be ascribed to the fact that he has at last begun to inspire some confidence, or to the Dukakis campaign going to sleep, or to both.

On the defensive

Certainly Mr Bush has grabbed the tactical initiative. He started with an eloquent convention acceptance speech, and has followed through with much less admirable attempts to impugn his opponent's patriotism. It is hard to believe that this last issue will play effectively throughout the campaign, but it certainly has, for the moment, thrown Mr Dukakis on the defensive.

There is always a large Gulf between winning a nomination from nowhere and actually running for President. The latter requires a different level of organisation and tactical appreciation, simply because, in an age of declining party loyalty, the national electorate is inherently more sceptical than those committed enough to take part in party primaries.

The perfect example of this divide can be seen in the current relationship between Mr Dukakis and the Rev Jesse Jackson. Up to and through the convention, the two waged an honourable battle according to the lights of the party. It

was many of the children at the school gates this week for the start of the new school year will be bright-eyed and bushy-tailed after their long summer break, their teachers could be forgiven for rather more apprehension.

One sentiment recently united education ministers with their critics at the round of conferences with which the educational establishment has its spare time. They agreed that the Government's education reforms, the most contentious since the post-war Butler settlement, will not work unless they win teachers' approval to another way: the Government's drive to raise educational standards — an objective applauded by parents and employers alike — will not succeed unless the teaching force begins to recover its professional self-respect.

Or to put it another way: the Government's drive to raise educational standards — an objective applauded by parents and employers alike — will not succeed unless the teaching force begins to recover its professional self-respect.

On the face of it, the 400,000 teachers in England and Wales (Scotland has its own educational system and traditions) are in no state to act as the shock troops of anyone's revolution. Battered by a decade which has seen a wave of industrial action in the schools, the teachers' image is in desperate need of a facelift.

More immediate problems

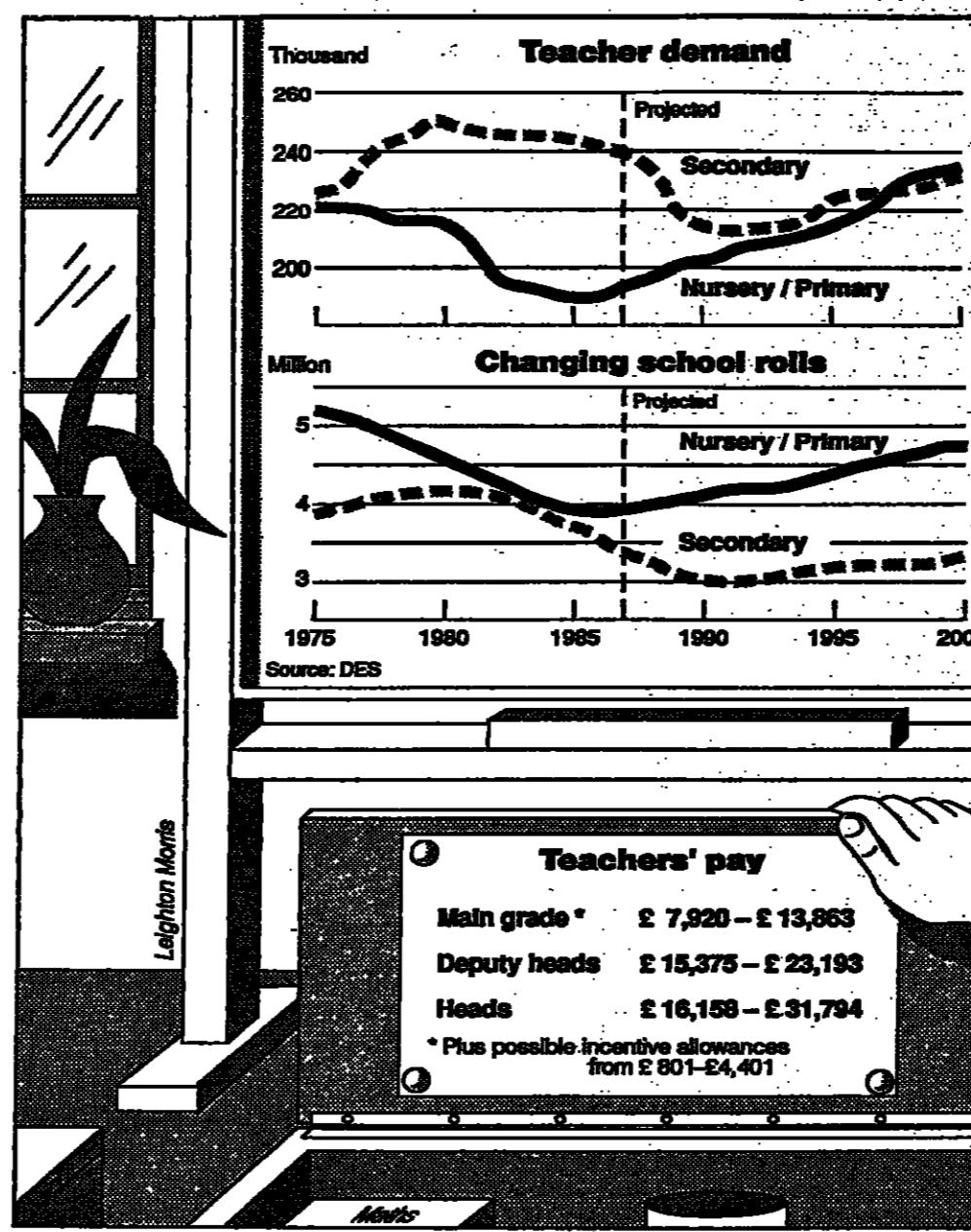
will no doubt be on teachers' minds as they settle down to the new year. Thanks to the rollercoaster changes in school rolls (secondary rolls are still falling and primary rising), many will have to cope with a changed school environment. They may find fewer colleagues than last year or may have been re-deployed to an entirely different school.

True, few will confront the upheaval facing the teaching force in Hull, where removal vans have been criss-crossing the town during the summer. The education authority there is re-organising its entire education service. All Hull's 165 schools were shut last Thursday; 98 brand new schools opened on Friday with a sixth fewer teachers.

While the adjustment is much smaller in most areas, it can still affect a school's morale. Ms Brenda Grand teaches in a primary on a Birmingham council estate where the number of young children has been falling. Returning to a staff reduced from 15 to 12, she points to the impact of this attrition on the age structure of the school: "Tim one of the youngest members of staff — and I'm 39."

Most schools will, however, adjust quickly to these staffing changes, in principle no different from those found in any workplace. Less certain is how teachers will react to the queue of more fundamental reforms in the pipeline.

A tranche of teachers will this year start preparing for the new national curriculum. From next September, science and maths will be taught to five and 11-year-olds according to the new regime — the first wave in a rolling programme



which will not be fully completed until the next century.

Schools, and particularly heads, will have to cope with this term with a shake-up of governing bodies designed to replace political placemen with more parents and people with practical experience. Just over the horizon is the plan to give

governing bodies, and by implication head teachers, much greater control over school budgets.

Jokers in the pack include two measures designed to break the monopoly of local government control over state education. Some schools are certain to vote this academic year to opt out of local authority control, choosing instead to be funded directly by central government. Meanwhile, the first of the new City Technology Colleges opens this year at Solihull: designed for second-

ary children with a bent for science and technology, they will draw business into the running of state schools as never before.

The Government believes these two initiatives will put pressure on those schools remaining within the local authority ambit to improve their performance. Its critics, particularly in the main teaching unions, argue they will further demoralise the bulk of schools, not least by draining talent and resources away.

Beneath this din of ideological warfare, however, there are some signs of quiet times returning to the schools.

Straws in the wind include:

• GCSE. The teachers have avoided any of the mud slinging over the new 16+ General Certificate of Secondary Education exam. While the Government was accused of forcing the exam in too quickly and the examining groups were attacked for a plethora of blunders, one found their fire on the teachers. Everyone from the Education Secretary down praised the teachers for the extra work entailed by GCSE.

The morale boost of being

praised for success after years of being linked to failure is obvious. "We have to turn that public satisfaction at the success of GCSE into support for local schools," comments Mr Doug McAvoy, deputy general secretary of the National Union of Teachers.

• Industrial relations. Industrial peace has returned to the classroom now that the spirit of moderation hovers over the two main teaching unions, the NUT and the NAS/UWT. The NAS/UWT had to abandon

plans this summer for a half-day stoppage over extra payments for GCSE work because of a lack of enthusiasm from its members.

Most fundamentally, NUT leaders pushed their union in a less militant direction this year, an admission that a further wave of industrial action is not feasible.

• Conditions of service. A reform implemented by the Government in the wake of the industrial action was to lay down precise conditions of service for teachers for the first time. It is now written in tables of stone that a head can direct a teacher for 1,065 hours

a year.

White Ministers have occasionally dropped hints about much greater pay flexibility, particularly once schools have more control over their bud-

gets, the proposal for a general initiative such as regional pay to solve teacher shortages cuts little ice.

Privately, some people close

to the debate argue that a teacher who is a second earner at the top of the basic grade (£13,863 a year) and does not live in London is doing very nicely.

"Sexist as it may be, a wife is very content to teach in a local school and get home at the same time as the children," one said.

It is right to be sceptical,

however, whether the existing

arrangements are going through a period of clarification.

In his view, teachers had fallen into a philosophical muddle, seeing themselves as social workers or policemen as much as teachers. He had got used to being blamed after school hours by local shopkeepers reporting one of his pupils for shop-lifting.

The new framework in the schools — the defined hours, the national curriculum and so on — will force teachers to concentrate once more on their prime role in the classroom, he argues, forcing others including parents to take on more responsibilities outside school.

The main worry is that it will be a good few years before anyone knows whether Mr Varnava's optimism proves justified.

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OBSERVER

only 48 and may outstay his older rivals. He has also been given one of the most difficult jobs in the Cabinet, yet may have the resources to improve the Health Service. Not least, he stayed on holiday during a pseudo-crisis on nurses' pay. Note, too, his Midlands background. There is something solid about him, to which the Tories may one day turn.

No half Nelson

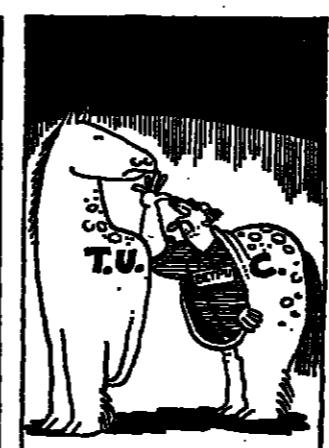
The Irish are looking for a new monument — something to replace Nelson's Pillar, which was built in 1808 and was a kind of concrete manifestation of the English presence in Ireland. The Pillar in Dublin was a symbol of the second city of the British Empire. All trams led to it and all distances were measured from it. It had a similar fame, form and function to Nelson's Column in Trafalgar Square.

During the 1916 Easter Rising, a rebel officer on the roof of the adjacent General Post Office destroyed most of the Admiral's nose with a bullet. To commemorate the 50th anniversary of the Rising republicans blew up the edifice.

Suggestions for a replacement are now on view at the General Post Office. Shane O'Toole, the exhibition's organizer, says that he hopes there will soon be a monument that will do for Dublin what the Eiffel Tower has done for Paris and the Statue of Liberty for New York.

Among the exhibits are a tower "inspired by the structure of a mighty wing", a 100 foot high bricklayer's nod and a millennium arch that draws heavily on the Arc de Triomphe. Most observers agree, however, that nothing on show would match the grandeur of the original Pillar.

The prospect of such a well-known name disappearing



Even if there were, a new monument would not be built since no public funds are available. The purpose of the exhibition is mainly to raise the level of public debate and awareness of the past.

Meanwhile, the old site remains vacant, save for a small little hut lurking in the shadow of the nearby British Home Stores.

Musical bids

The most venerable of London's small band of music publishers, Novello & Co, has become subject to takeover manoeuvres.

Novello has been a member of the Gramada group of companies since 1970. After several months of rumours, employees received a letter 10 days ago from the Novello chairman and Gramada deputy chairman, Sir Denis Forman, in which they were told that negotiations were under way for a sale to the music and magazine publishers, Filmtrack.

The prospect of such a well-known name disappearing

from the scene has prompted at least two consortiums to mount active bids, one of them supported by members of the Novello family, whose forebear Vincent Novello started music publishing in the early 19th century.

Novello has a large catalogue of living composers, though few of them are household names, and one of the highest-profile projects, Judith Weir, recently defected to a rival. For many years that company was sustained by its sales of Elgar's music. When the copyright lapses in 1988, Weir is expected to be found from other sources. This has not been easy, and anyone taking over will have some hard work ahead.

The attractions for a buyer, however, are the extensive hire library, serving a vast band of amateur orchestras and choral societies, still keen to put on Handel's Messiah as an annual event, and the two journals owned by Novello, The Strad, which caters for violinists, and Musical Times, founded in 1844.

Filmtrack currently publishes the rival Music and Musicians. If the proposed deal goes through, a merger between that and Musical Times seems inevitable: hence the counter manoeuvres.

David Owen charts the surge of Canadian investment in the US

Reaching across the parallel

Bloomingdale's, the Harrods of New York department store; Battery Park, the Canaveral Wharf of Manhattan redevelopment projects; and Texas-based Zale Corporation, the largest jeweller retailer in the US, appear at first glance to have little in common. In fact, all are owned or controlled by Canadians. So are the leading dairy producer in New York, the third largest bank holding firm in Illinois, and the largest school-bus operator in North America.

Canadian investment capital has been pouring out of the country at an accelerating pace for nearly 15 years. Well over half of it has been earmarked for the dynamic and inviting US market. All the most powerful Canadian business dynasties, from the Bronfmans in the Thomsens, from the Reichmanns to the Desmarais, now boast significant holdings in Canada's southern neighbour.

The underlying reasons fall essentially into two categories. First, an increasing number of Canada-based corporations have outgrown their relatively limited 25m-strong domestic market and been driven to look further afield in pursuit of fresh expansion opportunities. Second, the vast (12 times larger) dynamic and comparatively open US market is very much the obvious new front for such companies to attack — the more so since the two countries are also culturally and geographically close. Despite Canada's huge expense, no fewer than eight out of ten Canadians live within 100 miles of the US soil.

Throughout the 1980s, intense competition for foreign investment dollars among job-hunting US states and local authorities has provided a further incentive to invest in the US market. A resurgence of protectionism, in some sectors has had a similar effect, encouraging companies which may have been content to export to the US market to establish production plants as a means of bypassing real or threatened trade barriers.

Yet the still unratified US-Canada bilateral trade agreement, which promises to eliminate most remaining tariffs on trade between the two countries by the end of the millennium, seems also to be encouraging investment. The successful negotiation of

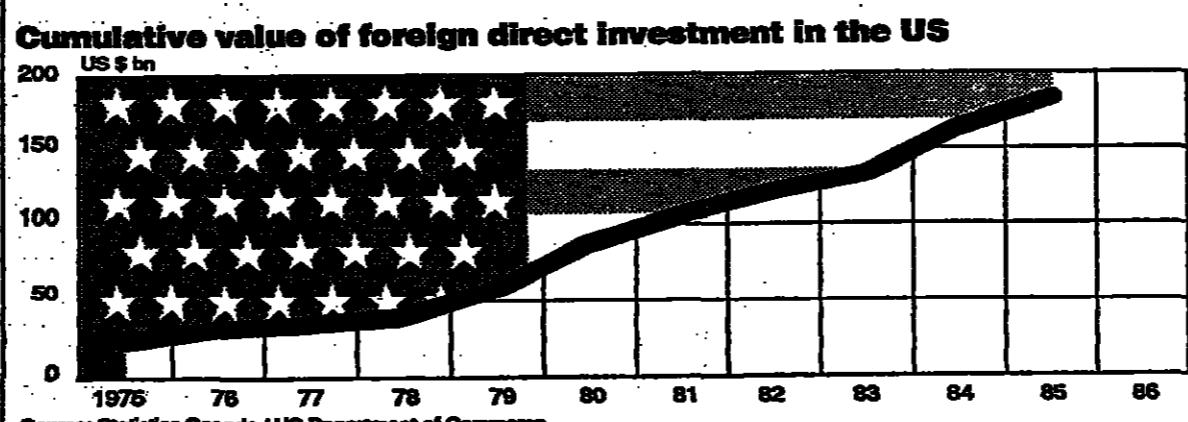
the pact has already been followed by a string of statements by Canadian companies portending future US investments. Seagram, one of the world's three largest drinks company, John Labatt, the Ontario brewing and processed food conglomerate, Dominion Textile, the Montreal fabric firm, and Stelco, the steelmaker, have all joined Campeau Corporation in expanding their interests south of the 49th Parallel (which marks the long US-Canadian border) in recent months.

The emergence of Canada as a significant exporter of capital to the US is a comparatively recent phenomenon. In 1976, the value of Canadian direct investment there totalled no more than C\$5.6bn. At that time, the high level of foreign

American ownership of Canadian corporate assets was of more immediate interest. Foreign ownership of domestic business remains higher in Canada than in any other industrialised country. Since then, an expanding band of Canadian multinational corporations has augmented its US holdings at a rapid rate.

This investment has taken a variety of forms. Many Canadian corporations, in the manner of Mr Campeau, have expanded their US holdings by dint of publicity-grabbing mergers and acquisitions. Such deals have included the \$550m takeover in 1986 of Texas-based Zale Corporation by Toronto's Peoples Jewellers, and the \$800m purchase two years earlier by Alcan of Atlantic Richfield's aluminium assets. John Labatt has also been a prominent buyer of American companies, having swallowed six sizeable US food firms including Pasquale, an Alabama-based pizza-maker, in recent years. All told, Labatt's US assets tripled to C\$351m in the three years to the end of fiscal 1986. Alcan's US assets expanded just as fast over the 10 years to 1987.

Other Canadian firms, like Seagram and Olympia & York, have expanded south of the border through major equity investments. In its year ended January 31, 1987, Seagram's 28 per cent interest in Du Pont, the chemicals company (mainly acquired in 1981), accounted for more than 48 per cent of the company's overall assets including the drinks division, a hefty



Source: Statistics Canada / US Department of Commerce

71.5 per cent of Seagram's assets were located in the US at that time. Since then, the company has added Tropicana, the upmarket US fruit juice manufacturer, to its quiver of brands.

The Reichmann family's Olympia & York, which last year accumulated a large minority stake in Santa Fe Southern Pacific, the Chicago-based railroad and resources firm, is perhaps better known for its shrewd US property acquisitions. Since 1984, the reclusive, orthodox Jewish Reichmanns have been the largest private owners of office space in New York. At the end of 1986, property accounted for about 17 per cent of all Canadian direct investment in the US.

Plant construction and expansion has also played a role in augmenting the value of Canadian assets south of the border. Northern Telecom, the Ontario telecommunications company, provides the best case study: the firm's US operations have grown spectacularly during the past decade, despite its avoidance of the type of takeover activity which has made Mr Campeau's name. Since 1977, the value of its US assets has soared from just over \$100m to \$1.8bn.

Of course, Canadians have not been alone in recognising the US market's huge potential. The upsurge in Canadian investment is part of a global trend. In fact, over the 10 years to 1986, the average annual increase in the value of Canadian investment in the US — at 20.3 per cent — was marginally below the corresponding

21.4 per cent figure for all countries. This was principally due to the rapid increase in new Japanese investment. Since then, would-be Japanese and European purchasers have continued to benefit from the depreciation of the dollar against their own currencies. This has made US acquisitions more affordable for them. In 1986, Canada ranked fourth among all foreign direct investors in the US, behind the UK, the Netherlands and Japan, and narrowly ahead of West Germany.

It is possible, however, that the effects of the free trade agreement, coupled with rising US concern over the rate at which domestic companies are being snapped up by foreign buyers, may allow Canada to emerge in the 1990s as the pre-eminent foreign investor of American assets.

For one thing, the trade pact promises to spark a renewed burst of Canadian investment, this time from a second tier of smaller companies. They are mindful of the need to increase efficiency ahead of the greater competition at home which the gradual elimination of tariffs would produce.

Such an undertaking may appear to be of little importance at a time when the US Administration's position, as articulated by President Reagan in 1983, is that "international direct investment flows should be determined by private market forces and should receive non-discriminatory treatment." But if its value would become very clear should US attitudes (and legislation) change, the US will effectively be perpetuating its open-door policy towards Canadian investment — even if concern at rising levels of foreign ownership were to prompt a reassessment of attitudes towards outside investment in general.

In a nutshell, the pact enshrines the principle of national treatment towards bilateral investment in the North American sub-continent. In the words of the agreement, the US and Canada "shall accord to investors of the other Party treatment no less favourable than that accorded in like circumstances to its investors." This means that with the exception of certain exempted areas, including communications, oil and gas, uranium and transportation, regulations that discriminate against investors from the other party would not be allowed.

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If that were to happen, we are in serious trouble. Here, in the UK, Ferranti will start the first public service in the world; inconvenience the general public with more choice; harry BT and the cellular services into reducing prices; and annoy many of our international friends by seeking to exploit their position overseas. If Ferranti make large profits from the service, it may use these to do even more dangerously innovative things, thereby quite ruining the UK's national culture.

You may feel, Sir, that as chairman of Ferranti I should be doing more to ensure that these rogues do not outwit the forces with legitimate interests to protect. Unfortunately, the electronics industry has adopted this terrible de-centralised management style; I am quite powerless to stamp on their enterprise.

In the circumstances, I can only call upon you to rally the British Government, Ofcom, and all the great companies of this important industry to foil the rascals. Should we fail, we could have enterprise breaking out all over the nation.

Derek Alun-Jones,
Chairman, Ferranti International Signal,
Millbank Tower,
Millbank, SW1

caused a dull mat layer. At DSM, one of Europe's largest chemical companies, we found the ideal solution. Our researchers developed a special plastic which met all the requirements.

To solve this problem, silicone oil

was added to the plastics. But that had an unfortunate side-effect. It meant that you couldn't achieve deep, bright colours. The oil came to the surface and

it can be given any colour — exactly.

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LOMBARD

A history lesson for Mr Botha

By Michael Holman

THE HISTORY OF Rhodesia — now Zimbabwe — may provide President P.W. Botha of South Africa with food for thought. The rise to power of Ian Smith, last prime minister of Rhodesia, and the downfall of his predecessor, Sir Edgar Whitehead, is a cautionary tale.

For Mr Smith and the Rhodesian Front (RF), substitute Mr Andries Treurnicht and the South African extreme right-wing Conservative Party. Put Mr Botha in the place of Sir Edgar Whitehead and the United Federal Party.

Sir Edgar tried to combat riots in black Rhodesian townships in the 1950s with a combination of a state of emergency, a new constitution and a promise to repeal the Land Apportionment Act, which divided the country into black and white areas. He was trounced by the RF in the 1962 general election. His party had lost touch with white Rhodesian grass roots, and woefully underestimated the impact of the Rhodesian Front's racist appeal.

Like the UFP, the National Party is embarking on reforms which alienate many white voters on the one hand, and on the other fall far short of satisfying black aspirations. Like the UFP, the National Party introduced in 1984 — a new constitution (based on a tripartite parliament), which broke new ground but offered no solution. Like the UFP, the National Party is discovering that a crackdown on black opposition does not win right-wing votes once they have lost confidence in government's general direction.

South Africa's National Party (which marked its 40th year in office last May) has lost direction. So demoralised are some supporters that in a number of constituencies the party is having difficulty in finding candidates for the municipal elections this October.

These elections could prove a resounding success for South Africa's extreme right wing Conservatives. Unless Mr Botha can find a way of postponing indefinitely the next general election — due to be held by 1990 — the National Party's days may be numbered.

And then it would be Mr Treurnicht, not Mr Botha, in charge of white South Africa — on a painful path to what is already trodden by Ian Smith and his supporters.

LETTERS

An alarming attack of the disease called enterprise

From Sir Derek Alun-Jones,

Chairman, Ferranti

Sir Hugo Dixon's article covering "the crucial questions facing the DTT over CT2" (August 27) touched too briefly on the dangers facing the UK.

Some years ago the Ferranti company appears to have suffered a mild attack of a disease called enterprise — fortunately not so far as to delay the Ferranti fellows by at least three years. I hope, Sir, that we can rely on GEC and others to work with us on this.

We are underlined how careful we have to be to ensure that over-clever little companies do not contrive to establish market advantages for themselves over important national assets like BT.

A competition will therefore be held. Dangera, however, still

not be found among those whose existing businesses might be threatened by such a new service or at least had not worked secretly on their own initiative to give themselves an unfair advantage.

This underscores how careful we have to be to ensure that over-clever little companies do not contrive to establish market advantages for themselves over important national assets like BT.

A competition will therefore be held. Dangera, however, still

not be found among those whose existing businesses might be threatened by such a new service or at least had not worked secretly on their own initiative to give themselves an unfair advantage.

As you will readily appreciate, Sir, standards are not only important for general delay, but also necessary in the UK to ensure that the British public does not become confused by being offered two separate services. The fact that the public seems not to have noticed the confusion which currently exists — in that citizens cannot swap between Cellnet and Vodaphone at will — should be disregarded, because the public is notoriously stupid in these matters.

These Ferranti chaps — quite irresponsibly — were trying to start before a British standard had been debated at length and properly agreed. They argued that this would delay them — and, anyway, that the Europeans (who also might be concerned by this British company trying to start a service before they are ready) would then argue for everything to be further delayed until a pan-European standard had been agreed.

Properly conducted, this standard issue could be used

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POSITIVE
That's BTR

Janet Bush
on Wall Street

A market floored by tradition

IT HAS always been a heresy to suggest that New York should follow London into upstairs dealing rooms to trade stocks, and so deny tourists the awe experienced watching the bedlam of a stock exchange floor safely behind glass.

On March 2 1987, the London Stock Exchange announced it was to close its trading floor and rely exclusively on dealing via phones and screens.

The New York Stock Exchange responded with what was widely read at the time as a fit of self-evidently absurd defensiveness by banning its member firms from making markets in roughly 200 securities listed on both exchanges outside Wall Street hours.

The reason it cited was that an exchange without a floor is not recognised under NYSE rules. As it turned out, screams of anti-competitiveness by big US securities houses, just digging their heels into the London market, forced the NYSE to reverse its decision only days later.

Many New York Stock Exchange members are still more than loyal to the use of the floor. Even Professor Morton Miller of the University of Chicago, renowned expert on derivative products and proponent of technological change, says that the NYSE specialist system seemed to have been stumbled on by accident but nevertheless works quite well.

There are others, however, who believe that the future efficiency of markets lies in full automation and that floor trading is obsolete.

Three of the most notable proponents of fully electronic markets such as London and highly automated markets such as the home-grown Nasdaq over-the-counter market are Mr Junius Peake of the New Jersey-based consultancy group Peake/Ryerson, Professor Morris Mendelson, professor of finance at the Wharton School of the University of Pennsylvania, and Mr R.T. Williams, president of another New Jersey consultancy, R. Shriver Associates.

Together known as PMW, they have been campaigning for a computer-based trading system since at least 1978. One or other of the triumvirate pops up on almost every occasion when converts may be gathered. One such occasion was when copies of the Brady Commission report on the October crash were handed out by the New York Federal Reserve one snowy New York day. PMW were there.

Given discussions within the industry about how to set up systems to cross portfolios of shares in upstairs dealing rooms, PMW may be some 10 years before their time.

They are unequivocal that more automation, not less, is what is needed in US markets. "We fear the loss of this nation's capital markets to foreign shores in systems not hamstrung by obsolete technologies and policies," they say.

Further, they argue that the crash of 1987 demonstrated a lack of liquidity and they quote Mr Stephen Wunsch of Kidder Peabody who concluded that this dearth of liquidity demonstrated "the triumph of the use of automation by those who require liquidity (the clients) over the non-automated processes of the assigned liquidity providers (specialists and registered market makers)."

They conclude that the only solution is a fully integrated, fully electronic secondary market in equities and their derivatives. "With today's technology it is truly possible for the first time in history to create a financial asset trading system which allows qualified buyers and sellers anywhere in the world to meet in a non-geographic electronic trading arena," Mr Peake said in a speech last month.

The system PMW propose would provide equal, instant, real-time market data to all market participants; similar access to and participation in the trading arena by all; no restrictions on providing market-making functions by any participant; the required pricing of all orders by principals or their agents before they arrive in the trading arena; synchronous real-time trading systems for underlying and derivative instruments; continuous trading in all instruments during market hours; and complete integration between trading and clearing systems.

Mr Peake is positively lyrical sometimes. "What's past is prologue," he quotes from *The Tempest*, the story of the wrecking of an English ship on the reefs of Bermuda. This is prophetic indeed, he says. Bermuda is home to the world's first fully electronic exchange - Inter - which he founded.

FINANCIAL TIMES

Monday September 5 1988

OVERSEAS MOVING BY MICHAEL GIBSON

01-4461300

Kurds flee Iraqi army into Turkey

By Jim Bodenhamer on the Iraq-Turkish border

THOUSANDS of Iraqi Kurdish guerrillas and civilian refugees continued to seek refuge in Turkey over the weekend from the brutal campaign waged by Iraq's fifth army against remaining Kurdish dissidents in northern Iraq.

Some Kurdish estimates put the numbers of refugees already in Turkey at 150,000, though the true figure is probably nearer 100,000. These can only be estimates, given the many groups of between 1,000 and 5,000 refugees which are sheltering in remote valleys accessible only by rough tracks and goat paths.

Many interviewed said that they were from the Kurdish Democratic Party (KDP), the largest of the Iraqi Kurdish peshmerga (guerrilla) groups, which is led by Mr Mesud Barzani.

Many refugees are camped in valleys and river hollows within sight of Iraqi barracks on a mountain slope barely more than 1km away.

The Turkish Government had until late last week been content to let the military handle the refugee situation. But the growing mass of those on the border seeking entry forced a concerted military and civil response.

Mr Turgut Ozal, Prime Minister, said the borders would be opened on humanitarian grounds. The Foreign Ministry repeated this the next day, but stressed that Turkey had no legal obligations under the 1953 Geneva convention and its 1967



Iraqi Kurds wait to be checked by Turkish commandos after crossing the border from Iraq yesterday. Turkey has said it will accept the refugees on humanitarian grounds

protocol to accept the refugees. The ministry said Turkey had reserved its discretion over its non-European, southeastern borders.

At the same time, however, Turkey last week refused Iraq permission to follow up the guerrillas under a hot pursuit agreement reached in 1984. Turkey is also unlikely to ratify the annual agreement when it expires.

At the end of the week, in a clear bid to defuse the tension on the border, Turkey offered temporary asylum to Mr Barzani, the KDP leader.

It was also announced over the weekend that the refugees would be moved away from the line, were being treated in Turkish hospitals and clinics

permanent camps in less sensitive areas in Turkey's southeast. Until the refugees reached the reception areas, their passage into Turkey was under the tense and mistrustful eyes of Turkish troops. The gendarmerie's elite, blue-bearded commandos patrolled the border area, and were alert to meet the groups wherever they are detected.

The treatment of the refugees appeared, however, to follow the Turkish Government's word that they were being accepted on humanitarian grounds.

Those seriously wounded who had managed to cross the line, were being treated in Turkish hospitals and clinics were friendly.

For the UK domestic investor, all the pressing questions just now are international. There are several practical reasons for this, one being the fact that the FTSE Index has tracked Wall Street with scrupulous fidelity for the past six months and more. But despite the background of uncertainty in New York and Tokyo, there remains the nagging feeling that UK equities could just be cheap in their own terms.

After the setbacks of recent weeks, the ratio between the yield on UK gilts and the yield on equities has fallen to 2.1 times. Over the past dozen years, a yield ratio of 2 has proved a floor on all but a couple of occasions - one such was the immediate aftermath of the crash, when it went to 1.9 (just before the crash, it peaked at a nonsensical 3.3). For a further drop in the ratio to be strictly justified, one of two things must happen - a rise in gilt yields, or a fall in dividends.

The first is certainly possible, though after last week's decline long gilts are probably discounting 13 per cent base rates already. As for dividends, it would take a real hard landing next year to produce earnings growth of much under 10 per cent, and with dividend cover presently calculated by Warburg at 3.2 times, compared with a long-run average of 2.75 or so, there is scope for a rise in the payout ratio to make good the difference.

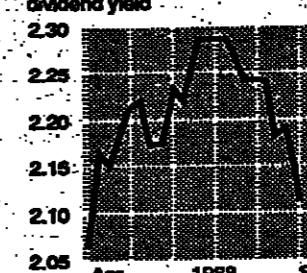
None of this means the UK market is about to go up; for a start, it has paid since the crash to sell into strength, and there is nothing yet in the market's psychology to change that. But it could just be time to start nibbling at long-term value - though it might still be prudent to steer clear of sensitive areas like consumer goods and housing.

THE FIX COLUMN

London looks better on paper

Yield ratio

FT-A 23yr High Coupons yield relative to FT-A All-Share dividend yield



Exchange. If other companies feel that a stock exchange quote does not address their objectives, the big Japanese brokers are these days on their doorsteps to convince them otherwise.

It is only in the past year or so that Tokyo has been seriously thought of as a source of funding for foreign companies. Barclays and NatWest are something of a special case, since access to capital in different markets helps banks meet the new regulations on capital convergence. But it may well be true that the strength of the yen and the Tokyo market are prompting Japanese investors to look for safe foreign companies with which to hedge their bets. Such capital may not be cheap to raise, and there is always the initial problem of flowback of stock to the country of origin. That out of the way, though, companies can hope that the Japanese will live up to their reputation as long-term holders.

South Africa

The idea of insuring assets presumably comes naturally to the likes of Liberty Life. Last week it followed Rembrandt's lead in isolating its vulnerable South African assets from the foreign ones which it might have to rely on if one day a black government in Pretoria were to opt for nationalisation. Presumably, neither company has any clearer idea than the rest of us of South Africa's political timetable, but, with tough sanctions legislation before the US Congress, it must have seemed a good time to ensure that both companies' South African assets are kept well clear of foreign holdings which might otherwise be caught in the same net.

The break is much cleaner in the case of Rembrandt than in that of Liberty Life, which will be able to domicile its foreign assets offshore for some time to come. And while the latter's reorganisation could well have implications for its relationship with Sun Life, the nature of Liberty's interest in that company is as much of a mystery now as before.

Meanwhile, the news that two South African companies in a week have decided to repack their foreign interests for political reasons must increase speculation that others could distance themselves from the Republic too, perhaps by splitting their businesses in two, or in the case of DeBeers moving across the border to Gaborone.

LDP poll victory a setback for critics of Takeshita tax plan

By Ian Rodger in Tokyo

JAPAN'S ruling Liberal Democratic Party (LDP) won a regional election yesterday, dashing opposition hopes that the vote would show strong public antipathy to the Government's tax reform plans.

Tokyo political analysts said at the weekend, however, that the fate of the tax reform plan, on which Prime Minister Noboru Takeshita has staked his political future, was still uncertain. Opposition both inside and outside the LDP remained strong, they said.

The campaign to elect a new governor in Fukushima prefecture attracted national attention because of a bizarre internal row within the LDP which resulted in two conservative

candidates running.

One of them, Mr Toshio Hirose, then made a pact with the opposition Japan Socialist Party to run on an anti-tax reform platform, thus attempting to turn the election into a plebiscite on tax reform.

LDP leaders officially renounced both candidates. In fact however, they put considerable effort into the campaign of Mr Hirose's rival, Mr Eisaku Sato, vice minister of finance and holder of a seat in the upper house of the Diet, Japan's parliament. They also apparently prevailed on Mr Hirose to play down the tax issue in his campaigning.

Last year, an unexpected LDP defeat in a by-election in

reform unlikely before the 21st century.

Mr Bob Hawke, the Labor Prime Minister, yesterday admitted his disappointment and blamed the opposition Liberal and National party coalition, which had urged a No vote on all four questions.

Constitutional change needed bipartisan support. Mr Hawke said, but the conservative parties were so divided and narrow-minded they were incapable of broader considerations.

Mr John Howard, the Liberal leader, in turn blamed the Government and drew encouragement from the apparent blow it had suffered. The parties' standing is due to be tested again in next month's Victorian state election and the

overall outcome, some believe, makes constitutional

S Korea to make the won fully convertible

By Maggie Ford and Stephen Fidler

SOUTH KOREA is to make its currency, the won, fully convertible in the next few months. This would be an important step for the country's maturing economy since it would remove restrictions on the won's use in the foreign exchange market and in the settlement of many transactions.

The move will be signalled by the signing by the Government of the International Monetary Fund's Article Eight, which obliges signatory governments to allow unrestricted foreign exchange dealings for current transactions.

A convertible won will ease a shift towards a market-determined exchange rate from the present "managed float" system under which the Government, in effect, sets the level of the currency.

The decision is the first to emerge from a number of proposed reforms to the financial sector of the economy, although there is still doubt as to how far any other reforms will go.

Sixty-three of the IMF's 151 members have signed Article Eight. Members are encouraged, but not obliged, to be signatories and the move is usually taken as an indication of a maturing economy. The most recent country to sign was Indonesia, in May.

A senior Government economist in Seoul said that the problems in management of the country's large current account surplus had made the need for financial sector reform an urgent priority. The surplus last year was almost \$10 billion.

Apart from the introduction of a liberalised foreign exchange market, this also dictated accelerated reform of the capital markets and significant changes in the way financial institutions operate, he said.

A battle has been raging over financial liberalisation among business, the central bank, the Ministry of Finance, commercial banks and government planners. The argument centres on how much control the Government should surrender to market forces, and how much independence should be granted to the Bank of Korea.

Referendum setback for Hawke

By Chris Sherwell in Sydney

AUSTRALIAN voters, in a vigorous display of their underlying conservatism, have decisively repudiated four proposed amendments to the nation's constitution.

By a margin of two to one, they voted in a weekend referendum to reject changes which promised fewer and fairer elections, recognised the status of local government, and entrenched certain legal and human rights.

Most support went to the proposal demanding that constituencies have equal numbers of voters, but only 37.4 per cent voted Yes. Just 32.8 per cent agreed with the proposal promising four-year parliamentary terms instead of three.

The overall outcome, some believe, makes constitutional

reform unlikely before the 21st century.

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INSIDE

How the American cookies crumbled

Since Mrs Fields, the US cookie company headed by the eponymous Debbie Fields (left), floated on the London stock market its shareholders have suffered a succession of disappointments. Philip Coggan looks at the generally poor track record of American companies that have chosen the UK for their only stock market quotation, and the image problem US businesses will face if they try to follow this route in future. Page 28

Osaka scores rare victory

Japan's second city, Osaka, scored a rare victory over its long-standing rival Tokyo on Saturday when the competing stock exchanges simultaneously launched stock index futures. To the surprise of securities brokers and the consternation of many in the capital, the Osaka exchange grabbed the lion's share of the trading volume - Y3,300bn (£14.5bn) against Y1,700bn in Tokyo. Page 28

Flaws in the Japanese machine

Nobody's perfect. Japanese manufacturing investment abroad has grown rapidly over the past three years along with the rising yen, prompting Western fears that it will become devastatingly successful competition. But this ignores the fact that the Japanese track record in managing foreign plants is far from flawless. The Business Column, Page 38

Now you see it, now you don't

The Euroyen bond market has performed a financial vanishing act: The yen once outstripped the dollar as the favourite currency for Eurobond market borrowers, but a flood of new issues has turned into a trickle this year. Reasons include the sense that the yen has peaked against other major currencies and the low interest rates on Japanese securities. Page 27

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UK GILTS**A black mood over policy**

By Simon Holberton

THE SORRY state of sterling left the gilt-edged securities market reeling at the end of last week and not even the rally in the US bond market was enough to give more than modest encouragement to either domestic or international investors.

For the first time in more than eight months the market for long-dated gilts closed above 10 per cent. If it was not for the persistent and fairly aggressive purchases of gilts by the Bank of England long yields would almost certainly be much higher.

The market is in a black mood. Despite low turnover and activity in general, there were reports of investors liquidating significant lines of stock and placing their funds on deposit, courtesy of the Bank acting as "buyer of last resort".

It seems unlikely that the gilt market can move ahead until there are signs that the recent rises in interest rates are having an effect on demand in the economy, although on technical grounds it seems over-sold and it could bounce back temporarily.

The predictions from the analytical community last week concerning Mo growth in August (it looks like having grown at an annual rate of around 7.7 per cent) and the implications for retail sales that flowed from that were not encouraging.

Although the relationship between Mo mainly notes and coins in circulation, and retail sales is not precise, the two tend to move sympathetically. Given that consumer expenditure is one of the factors fueling the current account deficit this does not appear to bode well for the August trade figures either.

The next stage along the line of this less than virtuous

FINANCIAL TIMES COMPANIES & MARKETS

Monday September 5, 1988



Pernod-Ricard attempts to distil a fighting spirit

George Graham looks at a French drinks group that is trying to spread its reputation overseas

Pernod-Ricard is giving the impression of a typical family company which still has ambitions to play on the world stage but which cannot summon up the nerve to pay the sort of price that ambition now requires.

This judgment, from one Paris banker, may sound a little harsh for a group which owns the world's third largest selling spirits brand and which last year managed to record a net profit margin of 5.7 per cent on sales of FF12.5bn (\$2bn).

Pernod-Ricard's hesitations and contradictions in the last few days over whether or not it would bid for Irish Distillers, however, have done nothing to dissolve the image of a company at a crossroads, which has not yet made up its mind which way to turn.

The group ranks as one of the world's leading wines and spirits producers. Besides its top brand, the aniseed flavoured Ricard with 7.4m cases sold a year, Pernod-Ricard has Pastis 51, another aniseed drink with annual sales of 2.4m cases, and the bitter spirit drink Suze, with 1.6m cases sold.

In domestic sales network is cast-iron, which has served it well in recent years, when France has shown a steady growth in the consumption of spirits, compared with a decline in many other major markets.

But the very strength of its implantation in its home market raises the question of where Pernod-Ricard can go next.

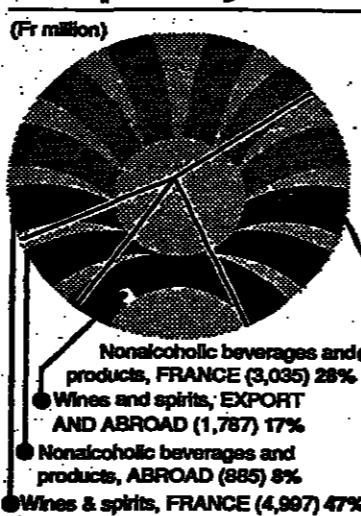
For the French wines and spirits division, which accounted for 46 per cent of group sales last year, provides well over 60 per cent of its operating profits. With Société des Vins de France, the wine subsidiary, showing a modest profit after losses the previous year, the vast bulk of the profits came from pastis.

Pastis is a cash cow which is hard to export. Its aniseed flavour does not make headway in many countries outside its native France, and the struggle of Pernod-Ricard and Pastis 51 brands leaves little room for further expansion on the home market.

Its latest acquisition, a French distillery producing the peach champagne Carlton, has proved to be an outstanding success, but the prospects for growth are limited now that other bottlers are attacking this segment and that Carlton's price has risen close to that of real champagne.

In overseas drinks markets, despite the acquisition in 1980 of Austin Nichols in the US, with its subsidiary Boulevard Distillers and the Wild Turkey bourbon label, Pernod-Ricard has not really made much headway.

Pernod Ricard 1987 profit by sector



Patrick Ricard, chairman of a drinks group at a crossroads

Pernod-Ricard claims that its Scotch whisky brand, Clan Campbell, is one of the fastest growing whisky brands in the world, but it started from a low base and its success has been largely achieved in the French market.

But the most damaging question over Pernod-Ricard's future is in the soft drinks sector, which it has claimed as the main focus of its diversification.

With licensed brands like Coca-Cola, Fanta, its own Orangina, and Pamplona, Pernod-Ricard made operating profits of FF7.318m in its domestic non-alcoholic division last year. Non-alcoholic drinks, especially the newly purchased Yeo Hoo chocolate drink company in the US, accounted for most of Pernod-Ricard's 7 per cent rise in sales to FF5.7bn in the traditionally weak first half of the year.

The group is locked, however, in a legal battle with Coca-Cola, which is seeking to take back its French concessions from Pernod-Ricard as they fall due. These include Fanta, Sprite and Finley tonic, as well as Coke. The lawsuit currently appears to be flowing Coca-Cola's way, and it will regain the concessions in the Vichy, Bordeaux and Orleans areas.

Possibly the best possible outcome for Pernod-Ricard now seems to be the negotiation of compensation from Coca-Cola for the loss of the remaining concessions - stockbrokers' estimates range from FF1bn to FF2bn.

But this will mean the loss of around 10 per cent of the group's total sales, and something like 13 per cent of operating profits.

Although Pernod-Ricard has built Coke up to a point where it claims 80 per cent of the French market, Coca-Cola is disappointed by the fact that the French still drink only one sixth "Beaujolais du Terroir" as much per head as the Americans.

Pernod-Ricard's other main soft drink brand, Orangina, has been recording strong sales growth in overseas markets, but analysts doubt whether it has much further potential in France and feel it is likely to remain a relatively high priced niche product overseas.

Moreover, the high cost of production means that despite rising sales, Orangina is a heavy loss-maker outside France. Mr John Wakely, analyst at brokers Paine Webber, estimates that it will repeat last year's FF10m deficit in 1988, and even in 1989 it foresees the entire foreign non-alcoholic drinks and products division making a paltry FF12m operating profit.

Does Pernod-Ricard's new interest in Irish Distillers mean that it has found something better to do with its money than spending FF645m on a 3 per cent stake in Compagnie Financière de Suez, the banking and investment conglomerate privatised by the French government last year, or buying in 5 per cent of its equity, as it did earlier this year?

To snatch Irish Distillers from Grand Metropolitan, however, even with the board on its side, Pernod-Ricard will need to show that it is more resolute than in the past about hoisting itself into the major leagues with an aggressive policy of external growth.

Time to search for a new misery index

Anthony Harris
in Washington

wage or less, needed no special studies to convince them that the Reagan years have in fact been quite hard ones. We need a new index to measure this dissatisfaction, which is surely not uniquely American.

Have real wages stood still? The point is hotly disputed between the technicians. The voters simply know that it is harder to buy a first house, to put a child through college, or to pay for medical care than it used to be. The technical argument boils down to indices. The EPI study follows the practice of the

"Minorities are much the worst affected, as has always been the case; but the biggest increases in recent years have been in white poverty, rural poverty and child poverty. Only the old have improved their position"



steady economic growth, but a greater proportion of them are far below it. The minorities are much the worst affected, as has always been the case; but the biggest increases in recent years have been in white poverty, rural poverty and child poverty. Only the old have improved their position.

But why has all this happened? The voters clearly tend to blame Reaganomics - especially women voters who manage household budgets and are paid less when they go out to work to help to cover those budgets. The much discussed gender gap - the Vice President's poor standing among women - is surely as much an economic as a personal judgement.

But the trends which have made the poor poorer generally date back to the mid-1970s or even the late 1960s, and so predate the new conservatism. The most important ones are social and structural. Households are much smaller; they need more dwellings, but have less to pay for them; hence Governor Dukakis' stress on affordable housing. Most of the child poverty is in single-parent families, again a rapidly growing group. This is not a trend the Republicans encourage.

Above all, as the JEC study shows, most of the growth has been in low-paying industries, and gap between average pay in the expanding and contracting industries have been much bigger than ever before - over \$10,000 a year in the Reagan period, compared with \$600-\$800 in the previous two decades.

The exposed industries seem to have responded by cutting labour rather than cutting wages. Employment has grown only a little more than half as fast in the Reagan expansion as in previous expansions. Unemployment has fallen because the labour force was also growing more slowly (as in Britain in the last two years).

Despite this, the Democrats started with a huge lead; and although Vice-President Bush has since proved a far stronger campaigner than anyone seemed to expect, and the Republicans have had all the media attention since their own convention, they are only ahead by a statistically insignificant whisker.

Ordinary Americans, earning the median wage or less, needed no special studies to convince them that the Reagan years have in fact been quite hard ones. We need a new index to measure this dissatisfaction, which is surely not uniquely American.

The implicit deflator is a more scientific way of guessing at total real consumption; but it gives a more favourable picture because spending has grown most rapidly on things whose real price has fallen sharply - electronics and air fares, for example. These are not what the poor buy.

The poverty statistics are really startling. Not only has the number of people below the official poverty line risen by some 8m in the last eight years of

Department of Labor in deflating wages by the retail price index.

Unifair, say the Reagans; they (and the JEC) prefer the implicit consumption deflator from the GNP estimates, which gives proper weight to the changing pattern of spending.

The point is quite interesting academically, but is unlikely to persuade a single voter to open a bottle and celebrate the fact that his wages have risen in real terms, after all. I suspect myself that it is a matter of whether you are concerned with the average American or the poor American. The implicit deflator is a more scientific way of guessing at total real consumption; but it gives a more favourable picture because spending has grown most rapidly on things whose real price has fallen sharply - electronics and air fares, for example. These are not what the poor buy.

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Mr Dukakis talks of good jobs at good wages - but how is it to be done? Mr Jackson stresses welfare. The voting pattern in Britain suggests that good wages buy voting support, but welfare payments don't. Or is it inequality which voters find offensive, when they are enjoying at best a sluggish growth of incomes? Or cuts in support for health, education and public transport services? The election may throw some light on all these matters, and help to educate governments in other rich countries.



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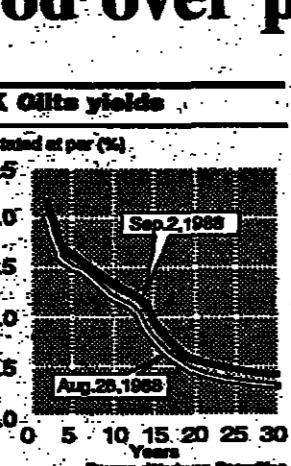
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Source: Moneyline Securities

Yield %

11.5

10.5

9.5

8.5

7.5

6.5

5.5

4.5

3.5

2.5

EUROCREDITS

Deals begin to flow thick and fast

NEW DEALS started to flow thick and fast into the international loans market last week after summer's slowdown, with the further promise that this week should see a significant further build-up in activity.

Malaysia awarded a mandate for a 10-year financing to a group of five banks, led by J.P. Morgan Asia. Biddings were fiercely competitive, resulting in terms the like of which the country has not seen before.

It pays interest of 12½ basis points for the first two years and 25 basis points for the remainder. Two years ago, in its previous large US dollar bank financing, Malaysia raised \$45m at a margin of 37½ basis points for six years and 50 basis points for the remainder.

The other banks underwriting the transaction are Industrial Bank of Japan, Long Term Credit Bank of Japan, Société Générale and Bank Bumiputra Malaysia.

British Airways mandated National Westminster Bank to raise £50m in a multi-option facility. The five-year financing carries a margin of 10 basis points over London interbank offered rate, a facility fee of 6¼ basis points and a utilisation fee of 2½ basis points if more than half drawn. There is expected to be no shortage of takers even at such benchmark terms.

Still in the UK, S.G. Warburg launched a £70m management buyout financing for Flairfield, the purchasing company for the clothing division of Colgate Palmolive in the purchase of

the Crowther Group. The financing is split between a £50m term loan and a £20m revolving credit with an overall seven-year maturity. The interest margin starts at 2 percentage points falling to a minimum of one point, depending on interest cover. There is a commitment commission of ¾ per cent for the financing, implicitly underwritten by Warburg, Continental Illinois, Sumitomo Bank and Midland.

Midland Montagu has arranged a \$26m financing for Carroll Group, a privately-owned property developer, to finance a \$100m shopping complex in Hatfield, north of London. Some £12m of this is non-equity mezzanine debt financing provided by Prudential Assurance, and the rest is an unusual combination of a seven-year fixed rate loan and a flexible drawdown schedule. This is accomplished by using a combination of interest rate swaps and options.

After last week's three-year financing for Enron, the Houston-based gas and oil concern, through Crédit Suisse First Boston, bankers expect further US borrowers in the loans market this week. The Enron deal is split into three parts: a \$250m term loan with a margin of 42½ basis points, a \$250m revolving credit with a margin of 50 basis points on the first half and 60 basis points on the second, and a \$250m competitive bid facility.

In the commercial paper markets, Burmah Oil has arranged for itself a £200m sterling and Eurodollar commercial paper programme, and has appointed Citicorp, County NatWest, Midland Montagu and Swiss Bank Corporation Investment Banking. The company, which has obtained an A1/P1 rating for the programme, is also contemplating a US programme and has established £225m in medium-term standby loans with banks on a bilateral basis.

SNCF, the French rail monopoly, has established a Y18bn Euroyen commercial paper programme arranged by Yamauchi International.

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EUROMARKET TURNOVER (\$m)

Primary Market	Credit	FBI	Other
US\$ 1,575.5	0.0	240.8	8,066.9
Prev 1,560.5	0.0	240.8	8,066.9
Other 2,640.7	1.3	537.7	2,535.9
Prev 1,474.3	13.0	418.2	2,542.3

Secondary Markets

US\$	Credit	Total
11,761.7	1,060.0	5,804.4
13,609.5	1,052.3	5,075.4
Other 22,952.7	2,121.2	18,294.4
Prev 14,382.2	970.3	5,314.6

Web to September 1, 1988
Source: AIBD

Stephen Fidler

INTERNATIONAL BONDS

Plain vanilla Euroyen issues lose flavour of the year

WHATEVER HAPPENED to the Euroyen market? After outstripping dollar bonds as the securities of choice in the Eurobond market early last year, plain vanilla Euroyen issues have now virtually dropped from sight.

Straight Euroyen issues so far in 1988 have totalled a modest Y\$61bn compared with Y\$365bn in the whole of last year, and Y\$57bn in 1986, according to data from Eurobond.

The sense that the yen has peaked against other leading currencies and the low interest rates on Japanese bonds share a large part of the blame for turning the flood of new issues into a trickle this year. The events of the past summer have done even less to whet the appetite of investors for the Euroyen securities.

Mr Jim O'Neill, international fixed interest economist at Swiss Bank Corp Investment, calculates that Japanese government bonds (JGBs) have lost 17 per cent of their value in the past two months. In the two weeks to last Friday, yields on 10-year JGBs rose to 5.85 per cent from 5.51 per cent.

But Mr O'Neill believes that longer term, the yen will resume its rise, reaching Y115 to the dollar by the end of 1988.

Surely, such an outlook for the currency and possible higher yields on bonds should

have officials professed no intention of raising the 2½ per cent discount rate to brake its fall.

Domestic economic conditions and inflation simply do not warrant higher interest rates, according to Mr Kichi Miyawaki and Mr Saito, Sumitomo, Japan's Finance Minister and central bank governor.

But if Japan's economy fails to find its feet, higher rates are uncalled for, the markets see the matter differently. Pressure for an increase in the discount rate is mounting, with Japan the only one of the Group of Seven countries not to have raised official rates in the past few weeks.

Mr David Osman, international economist at James Capel, says Japanese officials, mindful of US criticism that they are not doing enough to stimulate domestic demand, are wary of any move as visible as a discount rate boost.

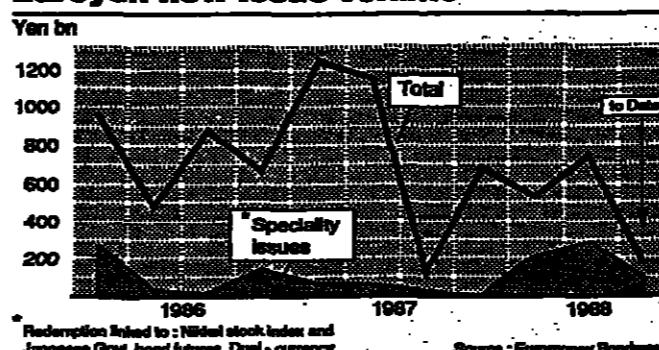
When they do raise the rate – as Mr Osman and other economists believe they will – Japanese monetary authorities can righteously point to other market interest rates and say they are simply following the trend.

But Mr Osman believes that

longer term, the yen will

resume its rise, reaching Y115 to the dollar by the end of 1988.

Euroyen new issue volume



Redemption linked to Nibiki stock index and Japanese Govt bond futures. Dated currency

Total

Specialty issues

Source: Eurobond

bonds were still only yielding about 5.75 per cent.

Also, some of the yen borrowing that may once have been done in Europe is trickling back to Japan where the investors do not fear currency fluctuations.

Japanese banks and securities firms have been able to capture pockets of domestic Japanese demand with clever product design.

An increasingly significant portion of the Euroyen market has been in the form of various "bull and bear" two-tranche deals with redemption prices linked to the performance of the Nikkei stock index or to JGB futures prices.

Officials at the underwriting houses privately concede the "Eurobond" designation for many of these issues is something of a fiction – virtually all the securities wind up in the portfolios of Japanese insurance and pension funds.

Deregulation of Japan's domestic markets, slow and incremental though it is, is also succeeding in bringing some borrowing back to Tokyo.

Mr Takumi Shibata, a director at Nomura Securities, said: "The main reason for the absence of Euroyen issues is the absence of swap opportunities. As of now, it is cheaper to borrow in dollars and swap into yen than to borrow in yen."

Interest rates on yen issues have simply been too low this year to enable borrowers to raise yen and then swap into the most desired currencies. At a minimum, the interest rate on a 10-year Euroyen bond would last week have had to be 5.50 per cent in order to effect a swap into dollars. Even after the sharp rises in interest rates last week, 10-year Euroyen

petitive bidding, with the happy result that the securities houses are undercutting each other out of a desire to reap new business.

Mr Shibata estimates that borrowers are able to borrow at rates 15 to 20 basis points below comparable rates in Europe as a result of the competitive bidding system.

Apart from these problems in the primary market, difficulties have also surfaced in the secondary market.

Anecdotal evidence suggests that secondary trading has become highly illiquid in some issues.

Last week, the fall in the yen threw the equity markets into disarray with the predictable result of sparking yet another bloodletting in the equity warrant sector. Daiwa Securities was apparently forced to postpone two issues last week, one for Casio Computer and the other for Maruhi Food as a result of chaotic market conditions.

On Friday, Nomura Securities took the unusual step of fixing the coupon on its issue for Yasuda Sheil ¼ point above the indicated level, raising it to 5½ per cent. The move cut the losses on the issue only modestly, with the discount slipping to only 4½ points below its par issue price from a full five points before the fixing.

Japan's Ministry of Finance has for the first time allowed these companies to assign mandates on the basis of com-

petitive bidding.

Euromarkets Staff

NEW INTERNATIONAL BOND ISSUES

Borrowers	Amount m.	Maturity	Avg. life years	Coupon %	Price	Book runner	Offer yield %
US DOLLARS							
Hankyu Corp.♦	200	1992	4	4½	100	Daiwa Europe	4.750
Nestle Corp.♦	120	1992	4	5	100	Nomura Int.	5.000
Sumitomo Corp.♦	220	1992	4	4½	100	Nomura Int.	4.675
Hewlett-Packard	50	1992	4	(5½)	100	Nomura Int.	*
Yusaka Shoji Co.♦	50	1992	4	5½	100	Nomura Int.	5.500
Nippon Credit Bank♦	150	1993	5	9½	101½	Nippon Credit Int.	9.325
Japan Development Bank♦	200	1993	5	9½	101½	BK of Tokyo Cap.Mids	9.200
Daikin K. (A'bara)♦	150	1992	4	9½	101½	Shearson L'man Hutton	9.190
Finland Export Credit♦	150	1991	3	9½	101½	Mitsubishi Fin.Int.	9.057
Tokyo Electric Power♦	250	1993	5	9½	101½	County NatWest	9.265
Xerox Credit Corp.♦	200	1990	2	9½	101.10	Goldman Sachs Int.	8.750
AUSTRALIAN DOLLARS							
Amro Australia♦	60	1991	3	13½	101½	Amro Bank	12.920
D-MARKS							
Siemens Corp.♦	180	1993	5	1½	100	Bayerische Versarb.	1.500
CSF France♦	300	1993	5	6	100½	Deutsche Zentralbank	5.500
Deutsche Bank Finance♦	600	1994	6½	6	100	Deutsche Bank	5.521
Electric Power Dev.Co.♦	120	1995	7	6	101½	WestLB	5.775
Post&Telecom of Hungary (c)♦	200	1995	6½	6½	97	DG Bank	6.827
SWISS FRANCS							
Theising Int.Fin.(b)	25	1993	—	(5)	100	TDB Amer Bank	*
Nichiban Co.♦	40	1993	—	12	100	Credit Suisse	0.600
Showa Tanzen Kaihatsu(a)♦	25	1993	—	12	100	SBC	0.200
Tobishima Corp.♦(a)♦	300	1993	—	14	100	Citibank Inv. Bank	0.260
Toyo Communication(a)♦	70	1993	—	12	100	B.della Svizzera Italiana	0.200
Energy Support Corp.♦(a)♦	35	1993	—	12	100	Bank Julius Baer	0.200
Kenebo Ltd.♦(a)♦	200	1993	—	14	100	SBC	1.225
Metallurgical Thessaloniki Eng.(a)♦	100	1993	—	(1)	100	Nikko (Switz) Fin.	*
Toyama Chemical Co.♦(a)♦	100	1993	—	(1)	100	Credit Suisse	*
Japan Air System(a)♦	100	1993	—	(1)	100	Swiss Volksbank	*
Apollo Electronics(a)♦	50	1993	—	(1)	100	UBS	*
Ireland(a)♦	100	1994	—	14	100	Sec Paribas (Swiss)	4.750
Shin-Etsu Polymer(a)♦	50	1993	—	(1)	100	UBS	*
STERLING							
TMC Mortgage Sec.10(d)♦	200	2010	7.2	30bp	100	Salomon Brothers	—
LIRE							
World Bank♦	1500n	1993	5	11	101½	Banca Com. Italiana	10.500
LUXEMBOURG FRANCS							
Credit Lyonnais(a)♦	300	1993	5	7½	100½	Credit Lyonnais (Lux)	7.000
Sorl							

INTERNATIONAL CAPITAL MARKETS AND COMPANIES

Decision expected on American Savings

By Anatole Katskely in New York

THE FUTURE of American Savings and Loan, the huge bankrupt thrift institution which is the main operating subsidiary of Financial Corporation of America, remained in the balance over the weekend, three days after the expiry of a negotiating deadline set by the Federal Home Loan Bank Board.

The FHLBB said no announcement would be made until today after extending for a further three days the exclusive negotiating rights which it had granted Mr Robert Bass, the wealthy Fort Worth investor.

WPP offshoot loses IBM's US account

By Roderick Oram in New York

A NEW YORK advertising agency owned by WPP Group of the UK last week lost the US account of International Business Machines, constituting roughly half of its business.

The departure of such a large and prestigious client represents a further severe setback for the advertising agency, Lord Geller Federico and Einstein, which is trying to recover from a damaging series of defections by senior staff earlier this year.

Renowned for its creativity, Lord Geller had held the IBM account for nine years and devised the company's first corporate image campaign.

Lord Geller said it was too early to say whether it would cut its staff - already down by about 60 to 270 following the defections and the loss of three other accounts. It said it had been highly confident of retaining the IBM business and was "shocked" by losing it.

However, the IBM billings of

Mr Bass had originally been told that he would have to reach an agreement by midnight last Thursday over the purchase of the \$30m California institution, which has been a ward of the FHLBB for more than three years.

The repeated extensions of the deadline suggested to some analysts that the FHLBB was putting pressure on the Bass group to improve its offer. There was also speculation that another bidder, the First National Bank subsidiary of the Ford Motor Company, might seize on the delays to re-enter the contest for AS&L.

Mr Bass is believed to have offered to inject about \$550m of his own money into AS&L, which is the country's second largest thrift institution with total assets of about \$30bn and insured deposits of \$15bn. The FHLBB would have to provide between \$3bn and \$3.5bn of assistance through its subsidiary, the government-guaranteed Federal Savings and Loan Insurance Corporation.

The FSLIC had previously said that it would guarantee all deposits in AS&L, including the uninsured deposits of over \$100,000. In exchange for its assistance, the FSLIC would receive a warrant convertible into a 30 per cent stake in the refinanced institution.

While this deal was thought to have been broadly acceptable to the FHLBB, some analysts believe that Mr Danny Wall, the agency's increasingly beleaguered chairman, asked for a big improvement of the Bass group's terms at the last moment.

First Nationwide has been lobbying to be given the right to resubmit an offer. Unless Mr Wall can demonstrate that he has negotiated an attractive deal with Mr Bass, he is likely to face further sharp criticism when he appears before Congress later this week.

San Diego Gas rejects SCEcorp

By Our New York Staff

SAN DIEGO Gas & Electric last year when it bought the US company's parent, JWT. The vast bulk of the business WPP acquired in the deal was represented by the J. Walter Thompson agency, another JWT subsidiary, with billings of \$3.5bn.

IBM decided to review its account with Lord Geller after the departure of the agency of Mr Richard Lord and other senior staff. They left to form Lord Einstein O'Neill and Partners with the backing of Young & Rubicam, a JWT rival. The defectors said they had left Lord Geller because of the tight management style of Mr Martin Sorrell, the WPP chairman.

As a result of its review, IBM asked six agencies to bid for the account, including Lord Geller and its new rival Lord Einstein.

Losses rise sharply at Hudson's Bay

By Our Toronto Correspondent

HUDSON'S BAY, the venerable Canadian merchandising and property group, incurred sharply increased net second quarter losses, due primarily to a C\$27m (US\$22m) special charge related to the recent default of Red Carpet Distribution, a Toronto-based wholesaler.

Hudson's Bay sold its wholesale division to Red Carpet for C\$123m in July 1987. The C\$27m charge represents the unpaid balance on that sale.

The results mark a prolongation of the hard times which Canada's oldest enterprise has been going through of late. The company has been profitable only once in the last five years.

In all, net losses for the latest period totalled C\$33m or C\$1.31 a share, compared with a loss of C\$22.5m or C\$1 a share in the 1987 second quarter. The 1987 figure includes special charges relating to dis-

posals of C\$4.6m. Revenues declined marginally to C\$1.06bn, versus C\$1.08 bn a year ago.

Results were more encouraging at an operating level, with losses falling to C\$6bn in the latest quarter, compared with C\$17.9 bn in 1987.

In the six months to July, net losses totalled C\$56.4m or C\$2.31 a share on revenues of C\$1.03 bn, against a year-earlier loss of C\$67m or C\$2.74 a share on revenues of C\$2.26 bn.

The 1987 figure includes special charges of C\$24.6m.

Six months' operating profit from ongoing merchandise operations was C\$9.1m, against C\$9.3m in the corresponding year-earlier period. The company expects all retail divisions to achieve profit improvements over last year.

Property-related operating profits rose sharply to C\$35m, due to increased earnings from Ontario land sales.

Parmalat rejects overtures from Kraft

By John Wyles in Rome

MR CALISTO TANZI and the lesser shareholders in his Parmalat Italian food empire have rejected acquisition overtures from Kraft of the US after a furtive weekend meeting.

First Nationwide has been lobbying to be given the right to resubmit an offer. Unless Mr Wall can demonstrate that he has negotiated an attractive deal with Mr Bass, he is likely to face further sharp criticism when he appears before Congress later this week.

Having led observers to believe that the Parmalat shareholders' meeting would take place today, Mr Tanzi succeeded again in avoiding media interrogation by holding it on Saturday.

Since it became known in mid-June that he was negotiating a possible L700bn (\$505.4m) sale of his business to Kraft, Mr Tanzi has consistently refused to confirm the discussions. Kraft was not named in the weekend statement which acknowledged only that "attractive values" had been put on Parmalat companies by "foreign multinationals".

These had not been accepted because the shareholders gave a higher priority to their belief that "the company still has valid projects to carry out at home and abroad."

The principal Parmalat shareholders are Mr Tanzi with 55.8 per cent, his brother Giovanni with 25 per cent and his sister Anna Maria with 10.5 per cent.

While apparently rejecting Kraft's approaches, Parmalat also agreed on a restructuring operation which may be seen as possibly simplifying the entrance into the group of new investors. Five subsidiary companies are to be incorporated into the Parmalat parent "in this way simplifying their role" as autonomous production centres, the statement said obscurely.

In a further move which will increase suspicions about the future of the Parmalat food business, the shareholders also decided to strip out of Parmalat Mr Tanzi's 50 per cent of the Odem television channel - still a lossmaker but the repository of great hopes in the Tanzi family.

After this reorganisation, Mr Tanzi is in a better position to pursue his negotiations with Federconsorzio, the national federation of Italian farmers' co-operatives, on selling an equity stake in Parmalat.

Osaka scores a rare victory over Tokyo

By Stefan Wagstyl in Tokyo

OSAKA, Japan's second city which is usually overshadowed by Tokyo as a financial centre, scored a rare victory over the Japanese capital on Saturday when the rival stock exchanges simultaneously launched stock index futures.

To the surprise of many securities brokers, the Osaka exchange grabbed the lion's share of the trading volume - Y3.300bn (\$24.2bn) against Y1.700bn in Tokyo.

Osaka exchange officials claimed the coup was probably due to their promotional campaign, while brokers said Tokyo Stock Exchange officials were shocked by the setback.

The reason for Osaka's success seems to be the fact that its contract is based on the Nikkei average of 225 leading Japanese equities. Apart from being the best-known indicator of the Japanese market, the Nikkei is more volatile than the market as a whole and is especially attractive to speculators.

By contrast, the Tokyo exchange's Topix index is based on the prices of about 1,000 stocks listed on the exchange's first section. While Topix is a more accurate indicator of movement in the whole market, it is less well known than the Nikkei index and moves more sluggishly. Its

main attraction is as a means of hedging (protecting) a widely spread portfolio of shares.

Brokers warned against reading too much into the first day's trading since much of the business was congratulatory - a custom where institutions place orders to mark a debut. Mr Hiroaki Hanao, deputy general manager of stock trading at Daiwa Securities, said volumes this week could be 50 per cent lower. Turnover could pick up later as investors became familiar with the contracts.

Both Tokyo and Osaka tried to turn the opening of the markets into festive occasions, with officials cutting ribbons in front of the computers which operate the two systems. Senior executives of member companies wore rosettes and television cameras were out in force.

The celebrations paled in comparison with the colourful troops of girls in kimonos who greet the start of trading every New Year. But there was no doubt the importance of the event for the financial markets. Exchange officials in both Osaka and Tokyo expect that stock futures trading in Japan will eventually exceed volume in the equity market - as it has done in the US.

Tapie poised for strong grip on Donnay rackets

By William Dawkins in Brussels

MR BERNARD TAPIE, the French entrepreneur, was poised at the weekend to take control of Donnay, the bankrupt Belgian producer of tennis rackets.

The family-owned company, based in the southern Belgian town of Couvin, called in the receivers last week with debts said to reach BFr41.4bn (\$35.3m), but has continued to work at reduced output under the protection of the regional authorities.

It is best known as former supplier to Bjorn Borg, the Swedish tennis champion.

Under the offer, the company would receive a BFr300m capital injection from Mr Tapie jointly with Mr Albert Frère, the Belgian financier, Promin.

That would leave the French businessman with a 51 per cent stake, Mr Frère with 20 per cent and the regional authorities with 29 per cent.

The deal would reduce the 350-strong workforce to 120. Mr Bernard Anseline, the regional economics minister, insisted on Mr Frère's participation as a condition of the deal, which has yet to gain formal approval of the receivers.

The offer would "allow Donnay to relaunch its activities in a durable way and without doubt achieve new growth."

A final decision is expected tomorrow, the receivers' deadline for other takeover offers.

NatWest shuts Bahrain unit

NATIONAL WESTMINSTER Bank of the UK is closing its offshore banking unit (OBU) in Bahrain this month, Reuter reports from Bahrain.

The bank said it would maintain a representative office.

The move followed the scaling

Sime Darby year-end pre-tax profits advance 70%

SIME DARBY, the Malaysian industrial and plantations conglomerate, achieved pre-tax profits of RM3.3m (ringgit) for the year to June, up 70 per cent, Reuter reports from Kuala Lumpur.

Net earnings of RM4.5m ringgit were 55 per cent higher, on

turnover up by a third to RM7.8m ringgit.

Consolidated Plantations, the commodities division, doubled pre-tax earnings to RM3.9m from RM1.7m ringgit on a further increase in palm oil and rubber prices.

Dunlop Malaysian Industries, the manufacturing arm,

showed profits of RM2.7m against RM1.1m ringgit as the volume of tyre sales grew and productivity improved.

Traction Malaysia doubled its profits to RM6.8m ringgit from RM4.6m ringgit because of good rubber prices and higher sales of machines to the logging industry.

Despite the weak property market, United Estate Projects contributed RM4.6m ringgit, up from RM3.3m ringgit.

However, Sime's insurance division posted losses of RM1.5m ringgit against profits of RM2.7m.

Industry

Recent advances in car electronics technology have been remarkable. They've not only improved basic functions such as engine control, they're now being seen in man-machine interfaces providing more comfort and operating ease, and even in communications with the surrounding world. Down the road there are things even more exciting.

Hitachi's scientists and engineers are at work on a Multi Information System using a colour thin film transistor LCD to display operating information, road maps and a navigational system using these maps. With this system a driver could obtain a variety of driving information simply by touching the display screen. Eventually, he'll be able to issue verbal commands to, for instance, regulate the temperature within his car.

Hitachi electronics and semiconductor technology can also bring free communication with the outside and determine a car's exact location through use of Global Positioning System satellites.

Hitachi have also developed a highly acclaimed hot wire air flow sensor used in engine management. It helps achieve the diametrically opposed goals of maximum power and fuel economy. And we've created many other superior products for driving control, suspension control, air-conditioning and audio.

We link technology to human needs; and

believe that our special knowledge will

create new, highly sophisticated functions

that are also easy to operate. Our goal in

automotive electronics — and medicine,

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INTERNATIONAL CAPITAL MARKETS

Turkey looks to borrow from Japan

By Jim Bodger in Ankara

TURKEY PLANS to borrow the equivalent of \$700m from Japan this month in a move that looks to solve neatly the problem of its debt servicing needs for the rest of 1988.

International bankers have long harboured doubts about Turkey's ability to finance its borrowings. Inflation is rampant, the balance of payments is weak and Turkey's foreign borrowings are high in relation to the size of the economy.

In this context, and in tandem with \$400m provided by the World Bank earlier this year, the Japanese funds allow Turkey's central bankers to come breathing space.

Credit valued at a total \$400m from the Export-Import Bank of Japan (Eximbank) is expected to be signed today. Its terms are 17 years' maturity with 5% interest and an interest rate of 5.3 per cent.

Another \$300m in commercial funds will be syndicated among Japanese banks in Tokyo during September. Neither of the two tranches will be tied to Turkish purchases of Japanese goods and services.

Turkey needed to find about \$30m in fresh borrowing in 1988 to meet debt-servicing requirements, say officials. Of this, some \$1.5bn was sourced in the first half of the year. In addition to the Japanese funds, the central bank is also issuing around \$300m in commercial paper in Europe.

Officials say there has been no increase in Turkey's borrowings which stood at \$3.8bn at the end of 1987. If the appreciation of the US dollar in the first six months of the year is taken into account, effectively there has been an \$800m reduction, they claim.

NAB to raise A\$700m

By Our Financial Staff

NATIONAL Australia Bank (NAB), one of Australia's Big Three private sector banking groups, plans to raise up to A\$700m (US\$555.3m) from bond issues in the domestic market and in the US.

Mr Nobby Clark, managing director, said in a local television interview yesterday that one issue would be a long-term Yankee bond in the New York market. "Domestically, we have a new instrument that we

think is going to be quite exciting for institutions," he said.

Mr Clark said the bank was seeking partly to fill the vacuum left from the Government's exit from the medium-term debt market. ANZ and Westpac, the other two leading banks, had announced plans to bond issues.

The NAB programme is due to start this month.

US MONEY AND CREDITS

The triumph of the Federal Reserve Board

WHO EVER said that being a central banker was a difficult and thankless job? A month ago Mr Alan Greenspan and his colleagues at the Federal Reserve Board decided to do something which was supposedly all but impossible — to rein in the rampant US economy without destabilising the currency and equity markets or, even more importantly, causing too much political embarrassment to their friends in the Republican re-election campaign.

In the first five months of the year, the current account deficit worked out marginally higher than January-May 1987 at \$330m. However, errors and omissions were up \$20m this year compared with the same period in 1987.

Turkey's bumper harvest this year is expected to boost exports. At a time of drought in the US, for example, Turkish wheat production is projected to total 21.5m tonnes, leading to an exportable surplus valued at about \$300m to \$400m on world markets.

Sure enough, the US economy was slowing. The August unemployment rate was up by 0.2 percentage points to 5.6 per cent. Payroll employment increased by only 219,000 in August compared with analysts' estimates of 230,000 and market fears of 250,000 or more.

Even better, the July payroll figure was slashed from 285,000 to 200,000. This meant an average employment growth of 215,000 so far in the third quarter.

If the economy could go on creating jobs at a steady

pace, one third below the monthly gain of 337,000 in the first six months of the year.

The week's latest economic indicators, as well as the details of the employment figures confirmed the same message of marked deceleration since the late spring and early summer. Manufacturing employment actually fell slightly in August, the first such decline since January. Overtime working and average hours were also down.

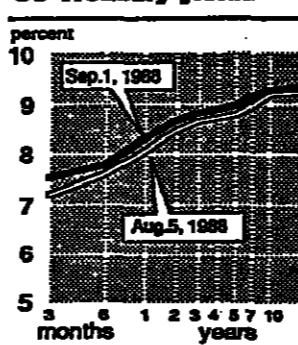
Meanwhile, new home sales in May were 4.7 per cent lower than in June, while manufacturing orders fell by 0.8 per cent. The July leading indicators declined by 0.8 per cent after their fresh jump of 1.4 per cent the month before.

Given the equally erratic 0.7 per cent decline of this index in May, the general picture presented by the leading indicators was of an economic outlook as flat as the cornfields of Kansas.

It was hardly surprising, then, that on Friday the bond market enjoyed its biggest one-day rally in six months. To the Fed and the bond markets a flat horizon is as beautiful as it is to a fifth-generation wheat farmer.

If the economy could go on creating jobs at a steady

US Treasury yields



Sources: Technical Data Inc., London

200,000 to 250,000 a month, with earnings flat and some of the pressure coming off the overheated industrial sectors, there would be no need for further monetary tightening. And even if this performance cannot be sustained much longer, Mr Greenspan may only two more months of moderate economic figures to retire gracefully from the scene until after the November election.

But if the Fed chairman seems to have accomplished his supposedly herculean labours with little effort this summer, his counterparts in Tokyo and Frankfurt have had an even easier time. There has been much sound and fury about the awesome dilemmas faced by West Germany and Japan in coping with the suddenly resurgent dollar. In fact, however, the central bankers could not have asked for a more pleasant or straightforward task.

The central bankers have had such an easy time this summer for one very simple reason. All of their actions have been designed to move the world economy towards a fundamental equilibrium at a time when markets were perniciously trying to push in the opposite direction. The central banker's job only becomes really difficult when he is trying to counteract a powerful trend in the real economy or reverse deep-seated financial expectations.

Checking the dollar's rise at a time when the US trade deficit appears to have plateaued at an annual rate of more than \$130bn annually is child's play compared with last winter's task of breaking the decline in the currency.

It would be very rash, therefore, to conclude that the painless money war conducted by the central banks this summer that an equally bloodless resolution of the fundamental imbalances in the world economy will follow before too long.

The real war which has to be fought between the central banks and the financial markets at the end of every economic cycle is hardly yet begun. Sooner or later, this conflict will be joined, and it will have to be fought on at least three fronts.

The central banks, particularly the Fed, will have to defeat inflationary expectations. The hard part of a central bank's job as an economy approaches its cyclical peak is

not to prevent real output and employment from booming. It is to make full employment sustainable without allowing inflation to get out of hand.

Over the coming months, attention in the US is likely to shift from the employment figures to the inflation numbers.

Unless these start coming down, the Fed will have to slow the economy below the growth of potential output — to put it bluntly, it will have to engineer a significant rise in unemployment and a recession.

However, the proposal immediately came under attack from within the financial community. Mr Bengt Ryden, the house chief executive, said on Friday this would discriminate against family businesses seeking new capital as well as hit many companies which already benefit from strong ownership.

The inquiry into the failure of Ferments, an antibiotics and animal health group, urged other drastic changes to avert future financial scandals. The investigators proposed appointing a stock exchange ombudsman, limiting the power of major shareholders, establishing more clearly where the responsibility lay in a quoted company, and better access of information for the Stock Exchange and its auditors on a company's activities.

The report recommended that no single shareholder should account for more than 10 per cent of the votes at company meetings for choosing or dismissing a board member.

Reform of Swedish securities rules urged

By Sara Webb
in Stockholm

SWEDEN'S Stock Exchange should have listings of companies where one shareholder controls more than 50 per cent of the voting power, according to a house team of investigators appointed in the wake of the collapse last year of Ferments, a former glamour stock.

Since the Second World War, no other policy has ever been successful in curbing inflationary expectations once they took hold.

Once a recession does get under way, the second front will open for the Fed. Monetary policy has always proved less effective in fighting recession than inflation — and in the next recession there will be little hope of assistance from an expansionary move in fiscal policy since the US budget deficit will rise to an horrendous level, even without policy changes, as soon as a recession begins.

All this might not be too damning were it not for a separate battle which will have to fought on a third front. With the US trade problem still far from resolution, US and international monetary policy will be continuously constrained by the currency markets.

Anatole Kaletsky

US MONEY MARKET RATES (%)

	Last Friday	Change	1 week ago	4 weeks ago	12-month High	12-month Low
Fed Funds (average)	8.15	+0.02	7.78	8.18	8.25	8.00
3-month Treasury Bills	7.62	-0.03	7.62	7.64	7.14	7.14
6-month Treasury Bills	7.76	-0.09	7.72	8.04	7.74	7.74
9-month Commercial Paper	8.07	-0.01	8.01	8.11	8.11	7.91
12-month Commercial Paper	8.14	-0.20	7.95	8.20	8.57	7.57
30-day Commercial Paper	8.38	-0.01	8.00	8.40	8.40	8.00

Source: Salomon Brothers (estimated)

Money supply: In the week ended August 21 M1 rose \$3.3bn to \$783.4bn.

NRI TOKYO BOND INDEX

	Average	Change	Price	12 weeks	26 weeks
1-year Treasury	9.73	+0.1%	9.87	9.25	9.56
2-year Treasury	10.24	+0.1%	9.92	9.43	9.71
3-year Treasury	10.74	+0.1%	10.24	9.74	10.04
5-year Treasury	11.24	+0.1%	10.90	10.40	10.70
7-year Treasury	11.74	+0.1%	11.10	10.60	11.30
10-year Treasury	12.24	+0.1%	11.50	10.90	11.80
15-year Treasury	12.74	+0.1%	11.70	11.10	12.30
20-year Treasury	13.24	+0.1%	12.00	11.40	12.80
30-year Treasury	13.74	+0.1%	12.50	11.80	13.40
40-year Treasury	14.24	+0.1%	13.20	12.50	14.00
50-year Treasury	14.74	+0.1%	14.00	13.20	15.00
Overall	12.43	+0.08	11.30	10.21	12.46
Government Bonds	12.05	+0.05	11.80	10.78	12.15
Mortgage Bonds	11.44	+0.05	11.20	10.35	11.60
Govt-Sponsored Bonds	14.09	+0.25	14.90	14.73	14.70
Corporate Bonds	13.15	+0.05	12.70	12.60	13.20
Corporate Bonds - Long	14.25	+0.05	13.20	12.12	14.24
Yen Bonds - Foreign Bonds	14.27	+0.05	14.00	13.01	14.24
Corporate Bonds - Short	14.27	+0.05	14.00	13.01	14.24
Corporate Bonds - Total	14.27	+0.05	14.00	13.01	14.24
Estimated Yield	5.60	5.29	4.97	4.83	

1 Estimated per yield

Source: Nomura Research Institute

FT/ABCD INTERNATIONAL BOND SERVICE

AFGHANISTAN GOVT 10 yrs	100	100	100	100	100	100
AFGHANISTAN GOVT 15 yrs	100	100	100	100	100	100
AFGHANISTAN GOVT 20 yrs	100	100	100	100	100	100
AFGHANISTAN GOVT 25 yrs	100	100	100	100	100	100
AFGHANISTAN GOVT 30 yrs	100	100	100	100	100	100
AFGHANISTAN GOVT 35 yrs	100	100	100	100	100	100
AFGHANISTAN GOVT 40 yrs	100	100	100	100	100	100
AFGHANISTAN GOVT 45 yrs	100	100	100	100	100	100
AFGHANISTAN GOVT 50 yrs	100	100	100	100	100	100
AFGHANISTAN GOVT 55 yrs	100	100	100	100	100	100
AFGHANISTAN GOVT 60 yrs	100	100	100	100	100	100
AFGHANISTAN GOVT 65 yrs	100	100</td				

UK COMPANY NEWS

Brent Walker backs £33m Elstree purchase

By Fiona Thompson

FILM MAKING at the famous Elstree Studios appears to have thwarted the final curtain, which had been due to fall next month.

Brent Walker, the fast growing leisure group headed by Mr George Walker, and Tramwood Earl, a small merchant bank, announced yesterday the formation of a joint venture to acquire Elstree Film Studios. The new company, Mainray, has exchanged contracts to purchase the 29 acre site in Hertfordshire for £32.5m in cash.

GrandMet may expand betting side in the US

By Lisa Wood

Mecor Bookmakers, the betting division of Grand Metropolitan, is examining ways in which it could extend its operations in the US, the group confirmed yesterday.

Among the options being considered is the acquisition of an American racetrack or greyhound stadium as a bridgehead for off-track betting operations in the US.

GrandMet said that Mecor was seeking to expand its operations outside of the UK. Last month it announced a joint venture in Malaysia where it will operate a chain of betting shops under a licence from the Malaysian government.

BOARD MEETINGS

	Barclays	Chase	ICI	Imperial Chemical Industries	Montgomery Ward	Standard Chartered	Telstar	Unilever	Woolworths
Sept 1	Sept 20	Sept 20	Sept 20	Sept 20	Sept 20	Sept 20	Sept 20	Sept 20	Sept 20
Over 1 up to 2	11%	11%	12%	12%	11%	11%	11%	11%	11%
Over 2 up to 3	11%	11%	12%	12%	11%	11%	11%	11%	11%
Over 3 up to 4	10%	10%	11%	11%	11%	11%	11%	11%	11%
Over 4 up to 5	10%	10%	11%	11%	11%	11%	11%	11%	11%
Over 5 up to 6	10%	10%	11%	11%	11%	11%	11%	11%	11%
Over 6 up to 7	10%	10%	11%	11%	11%	11%	11%	11%	11%
Over 7 up to 8	10%	10%	11%	11%	11%	11%	11%	11%	11%
Over 8 up to 9	10%	10%	11%	11%	11%	11%	11%	11%	11%
Over 9 up to 10	10%	10%	11%	11%	11%	11%	11%	11%	11%
Over 10 up to 15	10%	10%	11%	11%	11%	11%	11%	11%	11%
Over 15 up to 25	10%	10%	11%	11%	11%	11%	11%	11%	11%
Over 25	9%	9%	9%	9%	10%	10%	10%	10%	10%

*Non-quota loans B are 1 per cent higher in each case than non-quota loans A. tEqual instalments of principal. ttPayment by half-yearly annuity (fixed equal half-yearly payments to include principal and interest). \$ With half-yearly payments of interest only.

PUBLIC WORKS LOAN BOARD RATES

Term	Effective August 31		Date rates apply		Revised from 27 August	
	by B.M.V.	4% t	by B.M.V.	4% t	by B.M.V.	4% t
1			11%	11%	12%	12%
Over 1 up to 2	11%	11%	12%	12%	11%	11%
Over 2 up to 3	11%	11%	12%	12%	11%	11%
Over 3 up to 4	10%	10%	11%	11%	11%	11%
Over 4 up to 5	10%	10%	11%	11%	11%	11%
Over 5 up to 6	10%	10%	11%	11%	11%	11%
Over 6 up to 7	10%	10%	11%	11%	11%	11%
Over 7 up to 8	10%	10%	11%	11%	11%	11%
Over 8 up to 9	10%	10%	11%	11%	11%	11%
Over 9 up to 10	10%	10%	11%	11%	11%	11%
Over 10 up to 15	10%	10%	11%	11%	11%	11%
Over 15 up to 25	10%	10%	11%	11%	11%	11%
Over 25	9%	9%	9%	10%	10%	10%

This announcement appears as a matter of record only.



GEOSTAR CORPORATION
Washington, D.C.
A U.S. SATELLITE TELECOMMUNICATIONS COMPANY

has conducted in Europe

two successive private placements

with a limited number of investors
for a total amount of:

U.S. \$14,268,080

\$ 5,450,000 at \$ 8 per share of common stock, in March 1988

\$ 8,818,080 at \$ 12 per share of common stock, in July 1988

GEOSTAR CORPORATION
was advised, for these two transactions, by

CRÉDIT LYONNAIS
AFFAIRES INDUSTRIELLES

20 bis, rue La Fayette, 75009 Paris



CREDIT LYONNAIS

August 1988

B.B.

DOLLAR-BAER
JULIUS BAER U.S. DOLLAR BOND FUND LTD.
GRAND CAYMAN

DIVIDEND ANNOUNCEMENT

On 2nd September, 1988 the Directors declared a dividend of US-Dollars 35.00 per share payable on 15th September, 1988 on all Participating Shares then in issue.

Holders of bearer shares should present coupon No. 6 on or after 15th September, 1988 at the office of the Administrator, Julius Baer Bank and Trust Company Ltd., Butterfield House, Grand Cayman, BWI, or at the main office of the Agent, Julius Baer & Co. Ltd., Bahnhofstrasse 36, 8001 Zurich, Switzerland.

By order of the Board
Julius Baer
U.S. Dollar Bond Fund Ltd.

September 5, 1988

B.B.

D-MARK-BAER
JULIUS BAER D-MARK BOND FUND LTD.
GRAND CAYMAN

DIVIDEND ANNOUNCEMENT

On 2nd September, 1988 the Directors declared a dividend of D-Mark 2,500 per share payable on 15th September, 1988 on all Participating Shares then in issue.

Holders of bearer shares should present coupon No. 6 on or after 15th September, 1988 at the office of the Administrator, Julius Baer Bank and Trust Company Ltd., Butterfield House, Grand Cayman, BWI, or at the main office of the Agent, Julius Baer & Co. Ltd., Bahnhofstrasse 36, 8001 Zurich, Switzerland.

By order of the Board
D-Mark-Baer
D-Mark Bond Fund Ltd.

September 5, 1988

Blue Arrow chief may launch a buy-out

By Fiona Thompson

The future of film production at Elstree has been uncertain for some time. Cannon Group, owner of the film studios until July, said that all production would end in October.

In July, Cannon sold Elstree to Tramwood Earl, representing a consortium, for a price believed to be £20m.

Mr Walker said he was due to be involved in a project which Brent Walker was so ideally suited.

Mr Berry said that Dillon Read, his American investment bank, had held talks with a number of financial institutions in the US and last week Dillon "indicated that it was eminently possible" that over £1m in finance could be made available.

Mr Berry has been unhappy with the performance of his shares for some time and when he was on holiday last month, Phillips & Drew, the group's broker, downgraded its profits forecast from £110m to £90m, resulting in Blue Arrow shares slumping to 88p, about half the price of last year's 2237p.

A £1m bid would value the company at 140p, well up on Friday's close of 91p but short of the 165p rights price.

Wolstenholme Rink forecasts 39% rise

Wolstenholme Rink, fighting a hostile five-for-three share offer from Cookson Group, yesterday published a profit forecast in its final defence document.

For the year to December 31, Wolstenholme expects to achieve a 39 per cent rise in pre-tax profits to £4.2m, earnings per share up 30 per cent to 41p and a 50 per cent dividend increase to 15p.

The Cookson offer is now worth 397p per share, with a cash alternative of 410p. Wolstenholme shares stand at 478p.

Ruo Estates

Pre-tax losses of £246,000

against profits of £67,000 were

announced by Ruo Estates Holdings, a subsidiary of Eastern Produce (Holdings), for the six months to December 31, 1987.

Having joined the USM in June, at the end of its first half, Severfield-Reeve reported interim pre-tax profits advanced to £235,000, against £240,000 a rise of 34 per cent.

Turnover at this maker and erector of structural steelwork

and specialist claddings was 21

per cent higher at £4.26m.

Earnings per share increased

to 41.3p (3.15p) and the directors have declared a maiden interim dividend of 0.75p.

Armitage Brothers

Second half losses of £128,000

against £243,000 in the pre-tax result of Armitage Brothers to £215,000 to £26,000 for the year to May 25. Turnover was £15.6m (£17.7m).

The directors of this Nottingham-based manufacturer are holding the dividend at 4.5p, however, with an unchanged final of 2.5p. Earnings fell from 10.2p to 1p.

A.C. HOLDINGS P.L.C.

(Incorporated in England Registered No. 24237)

Placing and Offer to Shareholders of £6,000,024

nominal of 11 per cent. Convertible Unsecured

Loan Stock 1994-1998 at par

This advertisement appears in connection with the issue of £6,000,024 nominal of 11 per cent. Convertible Unsecured Loan Stock 1994-1998 ("Convertible Loan Stock"). The Convertible Loan Stock will be issued at a price of £1 for each £1 nominal of Convertible Stock and will be offered in £1 units on a one for one basis. The right to subscribe £1.2 million of Convertible Loan Stock for every five Ordinary shares of the Company held on 10th August, 1988.

Listing Particulars relating to the Company and the issue of the Convertible Loan Stock are contained in new issue circulars circulated by Etel Financial Services Limited and copies of such particulars may be obtained during usual business hours on weekdays (Saturdays and public holidays excepted), up to and including 19th September 1988 from:

Interbank London Limited

Clarendon Court

21-23 St. Swithin's Lane

London EC4N 8AD

and until 7th September 1988 from the Company Announcements Office,

The Stock Exchange, Throgmorton Street, London EC2P 2EY

5th September 1988

The way the cookie crumbles

Philip Coggan looks at some tarnished US images on the USM

WHEN Mrs Fields, the US cookie company, floated on the Unlisted Securities Market in 1986, chairman Mr. Randy Fields justified his choice of exchange by saying that he perceived London as the centre of the future international equity market.

After two years of disappointments, a Mrs Fields cookie now costs more than one of its shares. And the appalling record of US companies which have chosen London for their only share quotation, was further illustrated last week with news of a £5.7m loss from Pavion International, the manufacturer of Wet'n'Wild cosmetics.

FT UNIT TRUST INFORMATION SERVICE

Ref	Cap.	Inv.	Inv.	Yield	Out.	Inv.	Out.	Yield	Out.																
Swiss Life Pte Ltd Max Co Ltd (196401)	\$732,450	100.00	100.00																						
199-101 London Rd, Scotland																									
City Dist.	5125	317.1	328.0	1.00	1.00																				
First Int'l Dist.	5124	212.2	212.5	1.00	1.00																				
First Int'l Inv.	5124	200.0	213.4	1.00	1.00																				
TSI Unit Trusts (1) (196501)																									
Charlton Pl. Andor, SP10 1PE	10244	100.00	100.00																						
Charlton Am. & Assocs	5124	97.32	102.25	2.25	2.25																				
Charlton Pl. Andor, SP10 1PE	10244	100.00	100.00																						
Charlton Pl. Andor, SP10 1PE	10244	100.00	100.00																						
Charlton Pl. Andor, SP10 1PE	10244	100.00	100.00																						
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Charlton Pl. Andor, SP10 1PE	10244	100.00	100.00																						

Continued on next page

FT UNIT TRUST INFORMATION SERVICE

Ins Price	Offer Price	Vid Grid	Chg Ins	Ins Price	Offer Price	Vid Grid	Chg Ins	Ins Price	Offer Price	Vid Grid	Chg Ins	Ins Price	Offer Price	Vid Grid	Chg Ins	Ins Price	Offer Price	Vid Grid	Chg Ins	Ins Price	Offer Price	Vid Grid	Chg Ins	
Phoenix Assurance Co Ltd				Provost Mutual Life Assur. Assn				Royal Heritage Life Assurance Ltd - Comb.				Shield Assurance Ltd				Sun Life of Canada (UJO) Ltd				Giltman Financial Management Ltd				
Phoenix House, Regent Hill, Bristol	0272 294941			Willow Rd, Hitchin, Herts SG4 0LP	0438 737000			Astra Growth	100.0	140.0		40 Osborne Rd, W12 2BS	01-425-0700			Bailey Vale, Bishop's Stortford, Herts SG9 2HZ	025-943-4101			Bassi Capital Services Ltd			Javelin Planning & Co Ltd	
Lifeline Assurance Funds				Mansfield Ord.	270.1	280.3		Asset Hold Fund	112.4	117.4		42753	100.0	105.0		12770	100.0	105.0		BPD Box 21448, Hong Kong			GPDI Box 21448, Hong Kong	
Winton Fund	302.3	402.5		Country Fund	267.0	267.4		Asset Inv. Fund	112.4	117.4		42753	100.0	105.0		42757	100.0	105.0		Protege Marine Fund			GPDI Box 21448, Hong Kong	
Ed-Pr. Ed.	324.2	364.5		Index Fund	267.0	267.4		Asset Inv. Fund	112.4	117.4		42753	100.0	105.0		42757	100.0	105.0		Protege Marine Fund			GPDI Box 21448, Hong Kong	
Players				Index Fund	267.0	267.4		Asset Inv. Fund	112.4	117.4		42753	100.0	105.0		42757	100.0	105.0		Protege Marine Fund			GPDI Box 21448, Hong Kong	
Players Inv. Fund				Index Fund	267.0	267.4		Asset Inv. Fund	112.4	117.4		42753	100.0	105.0		42757	100.0	105.0		Protege Marine Fund			GPDI Box 21448, Hong Kong	
International Inv.	129.4	129.7		Overseas Equity Inv.	267.0	267.4		Asset Inv. Fund	112.4	117.4		42753	100.0	105.0		42757	100.0	105.0		Protege Marine Fund			GPDI Box 21448, Hong Kong	
Players Inv. Fund				Overseas Equity Inv.	267.0	267.4		Asset Inv. Fund	112.4	117.4		42753	100.0	105.0		42757	100.0	105.0		Protege Marine Fund			GPDI Box 21448, Hong Kong	
Players Inv. Fund				Overseas Equity Inv.	267.0	267.4		Asset Inv. Fund	112.4	117.4		42753	100.0	105.0		42757	100.0	105.0		Protege Marine Fund			GPDI Box 21448, Hong Kong	
Players Inv. Fund				Overseas Equity Inv.	267.0	267.4		Asset Inv. Fund	112.4	117.4		42753	100.0	105.0		42757	100.0	105.0		Protege Marine Fund			GPDI Box 21448, Hong Kong	
Players Inv. Fund				Overseas Equity Inv.	267.0	267.4		Asset Inv. Fund	112.4	117.4		42753	100.0	105.0		42757	100.0	105.0		Protege Marine Fund			GPDI Box 21448, Hong Kong	
Players Inv. Fund				Overseas Equity Inv.	267.0	267.4		Asset Inv. Fund	112.4	117.4		42753	100.0	105.0		42757	100.0	105.0		Protege Marine Fund			GPDI Box 21448, Hong Kong	
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Players Inv. Fund				Overseas Equity Inv.	267.0	267.4		Asset Inv. Fund	112.4	117.4		42753	100.0	105.0		42757	100.0	105.0		Protege Marine Fund			GPDI Box 21448, Hong Kong	
Players Inv. Fund				Overseas Equity Inv.	267.0	267.4		Asset Inv. Fund	112.4	117.4		42753	100.0	105.0		42757	100.0	105.0		Protege Marine Fund			GPDI Box 21448, Hong Kong	
Players Inv. Fund				Overseas Equity Inv.	267.0	267.4		Asset Inv. Fund	112.4	117.4		42753	100.0	105.0		42757	100.0	105.0		Protege Marine Fund			GPDI Box 21448, Hong Kong	
Players Inv. Fund				Overseas Equity Inv.	267.0	267.4		Asset Inv. Fund	112.4	117.4		42753	100.0	105.0		42757	100.0	105.0		Protege Marine Fund			GPDI Box 21448, Hong Kong	
Players Inv. Fund				Overseas Equity Inv.	267.0	267.4		Asset Inv. Fund	112.4	117.4		42753	100.0	105.0		42757	100.0	105.0		Protege Marine Fund			GPDI Box 21448, Hong Kong	
Players Inv. Fund				Overseas Equity Inv.	267.0	267.4		Asset Inv. Fund	112.4	117.4		42753	100.0	105.0		42757	100.0	105.0		Protege Marine Fund			GPDI Box 21448, Hong Kong	
Players Inv. Fund				Overseas Equity Inv.	267.0	267.4		Asset Inv. Fund	112.4	117.4		42753	100.0	105.0		42757	100.0	105.0		Protege Marine Fund			GPDI Box 21448, Hong Kong	
Players Inv. Fund				Overseas Equity Inv.	267.0	267.4		Asset Inv. Fund	112.4	117.4		42753	100.0	105.0		42757	100.0	105.0		Protege Marine Fund			GPDI Box 21448, Hong Kong	
Players Inv. Fund				Overseas Equity Inv.	267.0	267.4		Asset Inv. Fund	112.4	117.4		42753	100.0	105.0		42757	100.0	105.0		Protege Marine Fund			GPDI Box 21448, Hong Kong	
Players Inv. Fund				Overseas Equity Inv.	267.0	267.4		Asset Inv. Fund	112.4	117.4		42753	100.0	105.0		42757	100.0	105.0		Protege Marine Fund			GPDI Box 21448, Hong Kong	
Players Inv. Fund				Overseas Equity Inv.	267.0	267.4		Asset Inv. Fund	112.4	117.4		42753	100.0	105.0		42757	100.0	105.0		Protege Marine Fund			GPDI Box 21448, Hong Kong	
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Players Inv. Fund				Overseas Equity Inv.	267.0	267.4		Asset Inv. Fund	112.4	117.4		42753	100.0	105.0		42757	100.0	105.0		Protege Marine Fund			GPDI Box 21448, Hong Kong	
Players Inv. Fund				Overseas Equity Inv.	267.0	267.4		Asset Inv. Fund	112.4	117.4		42753	100.0	105.0		42757	100.0	105.0		Protege Marine Fund			GPDI Box 21448, Hong Kong	
Players Inv. Fund																								

FOREIGN EXCHANGES

Little in common apart from fast UK and Japanese growth

STERLING AND the yen have fallen out of favour recently, as the D-Mark has recovered from a bout of nervous weakness, and the dollar maintains a firm undertone.

The UK and Japan have two of the fastest growth rates among the major industrialised nations, but there the similarity ends to end.

Growth in UK Gross Domestic Product is likely to be around 2.5 p.c. in the present financial year. Recent forecasts suggest Japan's annual growth rate is about 5 p.c.

But Japan has so far managed to grow strongly without provoking inflation. The Japanese

inflation rate is about 0.5 p.c., whereas UK inflation is moving up towards 5 p.c. and is generally expected to head towards 6 p.c.

Japan is also heading for another substantial balance of payments surplus, whereas the UK could be running an annual deficit in the region of £12bn (\$20bn).

Japan's main problem, as far as its currency is concerned, is that the economy is so successful, without sparking the fire of inflation, that there is no reason to increase interest rates.

The general rise in rates elsewhere, including the US

and Europe, has been accompanied by an upward trend in Tokyo, but has left Japanese rates relatively unattractive.

Britain, on the other hand,

has attractively high interest rates, but only because the economic situation is threatening to boil off at an alarming pace, and needs to be weighed down, with double digit base rates.

The Bank of England has already provided support for sterling on the foreign exchanges, but the market was reassured this has not yet been on a large scale. It was announced on Friday that Britain's official reserves rose by an underlying \$827m in

August. If the Bank of England has not been in the market on a substantial scale, it is doubtful whether the Bank of Japan has intervened at all.

The dollar finished the week at around the Y136 level, where the Japanese central bank seems content to take a relaxed view.

If the dollar rises to Y138 this week there is every chance the Bank of Japan will show its hand, according to dealers, but the dollar will probably go above Y140 before there is a rise in the Japanese discount rate.

The problem is that the eco-

nomic situation does not yet warrant higher Japanese interest rates, and the Bank of Japan is also worried about possible criticism over precipitating a fall in share prices, when world equity markets are going through another nervous phase.

In Britain the picture is entirely different. Worries about excessive bank lending - increasing the upward pressure on inflation - and the sharp deterioration of the trade balance, has killed the bullish tone seen in sterling around mid-September.

Economists are now dusting off their charts, and looking for downward resistance points for the pound.

The level of DM3.000 was soon shrugged aside last week and resistances at DM3.125 did not last very long. The market is now looking for DM3.000 as a possible level to hold the thin red line.

The only bright spot was that sterling moved off a chart point of \$1.6800 against the dollar on Friday, recovering to \$1.6800. But the pound's exchange rate index fell 0.3 to 75.2, taking it nearer to an important resistance level of 74.8, where the market is worried there could be fears of a full blown sterling crisis.

£ IN NEW YORK

Sept. 2	Close	Previous Close
1 Spot	1.6465 - 1.6495	1.6465 - 1.6495
1 month	1.52 - 1.5150	1.51 - 1.5150
12 months	1.47 - 1.4500	1.41 - 1.4300
Forward premium and discounts apply to the US dollar		

STERLING INDEX

Sept. 2	Close	Previous
8.30	75.3	75.8
9.00	75.3	75.8
10.00	75.3	75.7
11.00	75.2	75.7
12.00	75.2	75.7
2.00	75.2	75.8
3.00	75.1	75.8
4.00	75.2	75.8

CURRENCY RATES

Sept. 2	Bank rate %	Special/ Drawing Rights	European Currency Unit
Sterling	1.6763/89	0.4622/27	
US Dollar	1.5912/23	1.4912/23	
Canadian \$	1.5750/52	1.4950/52	
Austrian Sch.	1.0792	1.5749	
Belgian Franc	2.0241/42	7.6550/55	
Deutsche Mark	2.1747/48	2.1747/48	
French Franc	1.2194/95	2.3200/00	
Irish Pound	0.7684/81	0.7774/00	
National Lira	1.2152	1.2152	
Swiss Franc	1.7888/88	1.7888/88	
Yen	1.4547/72	1.4547/72	
Mark (West)	1.3150/50	1.3150/50	
Scandinavia	1.5756/65	1.5756/65	
Spanish Peseta	2.1250/50	2.1250/50	
Swiss Franc	1.4547/72	1.4547/72	
Irish Pound	0.7744/51	0.7744/51	

*All SDR rates are for Sept. 1

CURRENCY MOVEMENTS

Sept. 2	Bank of England Index	Marginal Change %
Sterling	75.2	-1.70
US Dollar	99.9	-1.70
Australian Dollar	83.4	-0.50
Belgian Franc	98.0	-0.50
Danish Krone	89.1	-0.40
Deutsche Mark	142.5	+1.90
French Franc	164.5	+1.90
Irish Pound	223.3	+1.90
Swiss Franc	145.50	+1.90
Yen	233.3	+1.90
Morgan Guaranty: average 1980-1982-1983 Bank of England Index Average	111.920 - 12.0000	
1975-1976 for SDRs		

OTHER CURRENCIES

Sept. 2	E	S
Argentina	10.0000 - 20.0400	11.9200 - 12.0000
Brazil	1.6200 - 1.6200	1.6200 - 1.6200
Finland	7.4045 - 7.4260	4.4370 - 4.4700
Greece	1.0750 - 1.0750	1.0750 - 1.0750
Hong Kong	1.0215 - 1.0230	1.0215 - 1.0230
Iceland	1.0200 - 1.0200	1.0200 - 1.0200
Ireland	70.607	70.607
Italy	0.47700 - 0.47775	0.47700 - 0.47775
Luxembourg	31.05 - 31.15	31.05 - 31.15
Malta	2.0575 - 2.0585	2.0575 - 2.0585
New Zealand	2.7700 - 2.7795	1.5578 - 1.5585
Peru	1.2000 - 1.2000	1.2000 - 1.2000
Spain	1.0750 - 1.0750	1.0750 - 1.0750
Sweden	4.0700 - 4.0800	4.0700 - 4.0800
Switzerland	2.4300 - 2.4300	2.4300 - 2.4300
Turkey	1.4700 - 1.4815	1.4700 - 1.4815
U.A.E.	6.1200 - 6.1300	3.0725 - 3.0735

FORWARD RATES AGAINST STERLING

Sept. 2	1 month	3 months	12 months
US Dollar	1.6450/55	1.6450/55	1.6450/55
Deutsche Mark	2.1745/50	2.1745/50	2.1745/50
French Fr.	1.2194/95	1.2194/95	1.2194/95
Swiss Franc	1.4547/72	1.4547/72	1.4547/72
Yen	221.43	227.72/24	221.11/21

*Sterling rate

EXCHANGE CROSS RATES

UK clearing bank base lending rate 12 per cent from August 25 & 26

was 219,000, against expectations of around 230,000. The July increase was revised down to 200,000 from 238,000.

There was also relief for the credit market in the fact that the rise in August payrolls rates, as the yen has suffered

the industrial sector showed a loss of 8,000 jobs, helping to calm fears about overheating in the economy.

Upward pressure on West German interest rates also appears to have eased, as a result of the recovery of the D-Mark.

This has tended to turn attention towards Japanese rates, as the yen has suffered

the Japanese discount rate is only 2.5 p.c., but in recent months money market rates have climbed to around 5 p.c.

The Japanese Finance Minister, and the Governor of the Bank of Japan, indicated last week that there was no need to increase interest rates, but to some extent the rise has already happened.

The Japanese discount rate is only 2.5 p.c., but in recent months money market rates have climbed to around 5 p.c.

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WORLD STOCK MARKETS

AUSTRIA										FRANCE (continued)										ITALY										SWEDEN										CANADA									
High	Low	September 2		Price	Stock	High	Low	September 2		Price	Stock	High	Low	September 2		Price	Stock	High	Low	September 2		Price	Stock	High	Low	September 2		Price	Stock	High	Low	September 2		Price	Stock	High	Low	September 2		Price									
2,070	2,050	Geflumetaz		1,975	2,320	2,670	2,500	Gardes		2,402	250	2,544	250	ASA B Fred		191	301	2,650	2,500	ASA B Fred		246	245	2,650	2,500	ASA B Fred		246	245	2,650	2,500	Sales Stock		High	Low	Close Chg		Sales Stock	High	Low	Close Chg		Sales Stock	High	Low	Close Chg			
12,100	9,350	Geflumetaz		11,440	12,000	12,000	11,500	Geflumetaz		422	422	422	422	Benzodiazepines		265	265	265	265	Benzodiazepines		265	265	265	265	Benzodiazepines		265	265	265	265	Sales Stock		515	515	12 + 14		44330 Sales Can	515	515	12 + 14		44330 Sales Can	515	515	12 + 14			
2,440	2,450	Jagdflieger		2,750	2,750	2,750	2,750	Jagdflieger		1,204	1,204	1,204	1,204	Jagdflieger		1,204	1,204	1,204	1,204	Jagdflieger		1,204	1,204	1,204	1,204	Jagdflieger		1,204	1,204	1,204	1,204	Sales Stock		515	515	12 + 14		16930 Scopri	405	405	12 + 14		16930 Scopri	405	405	12 + 14			
123	123	Kauf-Deluxe		83	83	83	83	Kauf-Deluxe		208	208	208	208	Kauf-Deluxe		1,070	1,070	1,070	1,070	Kauf-Deluxe		1,070	1,070	1,070	1,070	Kauf-Deluxe		1,070	1,070	1,070	1,070	Sales Stock		515	515	12 + 14		1320 Schneider	825	825	12 + 14		1320 Schneider	825	825	12 + 14			
655	655	Kauf-Deluxe		83	83	83	83	Kauf-Deluxe		208	208	208	208	Kauf-Deluxe		1,070	1,070	1,070	1,070	Kauf-Deluxe		1,070	1,070	1,070	1,070	Kauf-Deluxe		1,070	1,070	1,070	1,070	Sales Stock		515	515	12 + 14		1321 Sear's Can	512	512	12 + 14		1321 Sear's Can	512	512	12 + 14			
123	123	Kauf-Deluxe		83	83	83	83	Kauf-Deluxe		208	208	208	208	Kauf-Deluxe		1,070	1,070	1,070	1,070	Kauf-Deluxe		1,070	1,070	1,070	1,070	Kauf-Deluxe		1,070	1,070	1,070	1,070	Sales Stock		515	515	12 + 14		1322 Macau	630	630	12 + 14		1322 Macau	630	630	12 + 14			
123	123	Kauf-Deluxe		83	83	83	83	Kauf-Deluxe		208	208	208	208	Kauf-Deluxe		1,070	1,070	1,070	1,070	Kauf-Deluxe		1,070	1,070	1,070	1,070	Kauf-Deluxe		1,070	1,070	1,070	1,070	Sales Stock		515	515	12 + 14		1323 Matra	515	515	12 + 14		1323 Matra	515	515	12 + 14			
123	123	Kauf-Deluxe		83	83	83	83	Kauf-Deluxe		208	208	208	208	Kauf-Deluxe		1,070	1,070	1,070	1,070	Kauf-Deluxe		1,070	1,070	1,070	1,070	Kauf-Deluxe		1,070	1,070	1,070	1,070	Sales Stock		515	515	12 + 14		1324 Matra	515	515	12 + 14		1324 Matra	515	515	12 + 14			
123	123	Kauf-Deluxe		83	83	83	83	Kauf-Deluxe		208	208	208	208	Kauf-Deluxe		1,070	1,070	1,070	1,070	Kauf-Deluxe		1,070	1,070	1,070	1,070	Kauf-Deluxe		1,070	1,070	1,070	1,070	Sales Stock		515	515	12 + 14		1325 Matra	515	515	12 + 14		1325 Matra	515	515	12 + 14			
123	123	Kauf-Deluxe		83	83	83	83	Kauf-Deluxe		208	208	208	208	Kauf-Deluxe		1,070	1,070	1,070	1,070	Kauf-Deluxe		1,070	1,070	1,070	1,070	Kauf-Deluxe		1,070	1,070	1,070	1,070	Sales Stock		515	515	12 + 14		1326 Matra	515	515	12 + 14		1326 Matra	515	515	12 + 14			
123	123	Kauf-Deluxe		83	83	83	83	Kauf-Deluxe		208	208	208	208	Kauf-Deluxe		1,070	1,070	1,070	1,070	Kauf-Deluxe		1,070	1,070	1,070	1,070	Kauf-Deluxe		1,070	1,070	1,070	1,070	Sales Stock		515	515	12 + 14		1327 Matra	515	515	12 + 14		1327 Matra	515	515	12 + 14			
123	123	Kauf-Deluxe		83	83	83	83	Kauf-Deluxe		208	208	208	208	Kauf-Deluxe		1,070	1,070	1,070	1,070	Kauf-Deluxe		1,070	1,070	1,070	1,070	Kauf-Deluxe		1,070	1,070	1,070	1,070	Sales Stock		515	515	12 + 14		1328 Matra	515	515	12 + 14		1328 Matra	515	515	12 + 14			
123	123	Kauf-Deluxe		83	83	83</td																																											

NEW YORK STOCK EXCHANGE COMPOSITE PRICES

Continued on Page 33

The Business Column

Assessing Japanese companies overseas

If history is any guide, it won't be long before someone produces a book called "Le Défi Japonais". It will argue that Japanese manufacturers' multinational strategies will soon become devastatingly successful, leaving European and US companies far behind unless the author's prescriptions are applied.

Perhaps the book will be as entertaining as Jean-Jacques Servan-Schreiber's 1980 tract, *Le Défi American*, which warned of a virtual takeover of Europe by US multinationals. But will it be any more prescient?

Certainly, Japanese manufacturing investment abroad has grown swiftly since the yen began its remarkable rise three years ago. But if it is still relatively small, the value of Japanese acquisitions in the US to date is still less than those made by Dutch companies.

Like the US presence in Europe 20 years ago, the Japanese presence is big and threatening, partly because it is new and partly because it is concentrated in highly visible sectors, such as cars and consumer electronics. Also, it seems that most of the main Japanese industrial investments abroad have been peaceful and successful.

But Japanese companies are not perfect. Toyota Motor, the leading automotive group, faced criticism in Kentucky two years ago for not using union labour to build its \$300m factory there. Honda has been attacked recently in Ohio for alleged discrimination against blacks. If there have been relatively few disasters, it may be because most Japanese companies' overseas experience is still recent, often of relatively simple assembly operations.

Nissan Motor, the country's second largest motor group, is one of the few that can boast experience abroad which is both long and deep. Nissan set up its first overseas plant in Mexico in 1968. It was an early arrival in Europe as well, purchasing a major stake in Motor Iberica (now Nissan Motor Iberica) in 1980. More recently, it has built large greenfield plants in the UK and the US.

Slow response and bad timing

The track record from these operations is far from impressive. The Mexican subsidiary was set up grudgingly in response to a Mexican government move to ban imports, and the Ginza barons, as Nissan directors were called, were content for a long time to let it produce outdated models and indifferent profits.

Only within the last three years have they recognised Mexico's potential as a producer of low cost vehicles for other Latin American markets and of low cost parts.

In Spain, Nissan suffered from bad timing. From the moment it bought Massey Ferguson's one third stake in Motor Iberica in January 1980, the company went into loss and did not emerge until 1986. Nissan knew that it would want to carry out a lot of restructuring at Iberica and it has succeeded in doing so. But it did not expect to have to do this against the background of plunging sales because of a recession in the Spanish truck market. On more than one occasion, it had to decide whether to inject more capital or let the company fall.

In the US, Nissan may have been wrong to begin production at its Tennessee factory in 1983 by making light trucks. Demand was not that strong, so the \$760m factory took longer to reach profitability than it might have. It has gradually switched to cars, although its Senna model is outdated and the company is losing market share in the US.

In the UK, Nissan at last seems to have got it right from the start, with a trouble-free start and a popular product. To some critics, Nissan's experience merely shows that the company's managers made a lot of mistakes. But looking back on the experiences of some of the more ambitious US multinationals of the 1960s, it seems that problems often emerge as commitment grows. There is no reason why the Japanese should be exempt from this pattern.

The Nissan experience also shows that the Japanese have at least one quality that will serve them well. It is one that others could easily emulate - patience.

Ian Rodger

THE MONDAY INTERVIEW

Bank surgeon stems the flow

Andrew Baxter and Bob Vincent meet A. Robert Abboud, First City's rescuer

There can have been few more interested spectators at the recent \$4bn rescue of the crippled Dallas-based First RepublicBank than the new chairman and chief executive of yet another long-standing entry on the Lone Star state's banking sick list.

Mr A. Robert Abboud, the leading figure in this year's complex path-breaking \$1.5bn recapitalisation of Houston's First City Bancorporation, is the sort of man who takes a great personal interest in other people's business - especially those banks which do not behave as he thinks they should.

In this case Mr Abboud had a special reason for looking northwards to Dallas, where First Republic's widely-publicised travails threatened temporarily to throw a large spanner into his own plans for the Houston group.

However, in a long and controversial career in banking and the energy industry, Mr Abboud has never been afraid to speak out on the rights and wrongs of banking practice, and other issues in which he has been more or less involved.

"You've got to have strong banks to have a strong economy," he says. "They're the spark plugs that make it work. If that's the case banks have to be conservative - they're highly leveraged institutions and they have to stick to lending depositors money."

Mr Abboud's brand of aggressive conservatism clearly recommended him to regulators for the delicate task of nursing First City back to health after one of the largest Federally-assisted rescues on record. But to those with long memories, the choice might, on the face of it, seem odd, given that his previous banking job as chairman and chief executive of First Chicago ended in 1980 with a humiliating public dismissal.

That was followed only four years later by an almost equally abrupt departure from Occidental Petroleum, where Mr Abboud was seen widely - he says wrongly - as an heir apparent to Dr Armand Hammer.

Mr Abboud emphasises the genuine policy differences behind the dispute with his former employer in Chicago, but for many who worked for him, or found they could not, that is only part of the story.

After all, Mr Abboud, 58, a short, thick-set Bostonian of Levantine extraction and pugilistic demeanour, has for the past ten years been followed everywhere he goes by an adjective - abrasive. It's what the "A" in his name stands for, some would say, rather than Alfred.

A workaholic and a stickler for detail, Mr Abboud is not everyone's idea of the ideal boss. Former colleagues have spoken of receiving verbal lashings in language that they would not use on their worst enemy, in short, to use a quintessentially American euphemism, there are question marks over his "people skills".

PERSONAL FILE

1928 Born, Boston, Massachusetts
1951-1958 Graduated, Harvard College, Harvard Law School, Harvard Business School
1958 Joined First Chicago
1975 Chairman, chief executive First Chicago
1980 Dismissed from First Chicago. Joined Occidental Petroleum as president, chief operating officer
1984 Resigned from Occidental. Set up A. Robert Abboud & Co
1987 Chairman, chief executive, First City Bancorporation of Texas

Mr Abboud agrees he has strong opinions and convictions. But he has an answer to the critics. "I was, after all, the youngest chief executive in the history of First Chicago. I rose up through the ranks from trainee to chief executive. I didn't have any big stock position or family influence."

"How do you come through a big structural organisation if you've got some sort of flawed character? It just doesn't work that way - there are too many hoops to go through."

It was, certainly, an achievement for a man whose first experience of banking was to see his father's heating and ventilating businessman go bankrupt because he could not get a small loan.

Instead, Mr Abboud finds himself at First City, which

became apparent in 1975, when Mr Abboud was named chairman and chief executive. Faced by a string of problem loans, especially in real estate, Mr Abboud pulled in the reins on lending, creating "a rather unique situation" in Chicago, as he puts it. "One pole of banking activity was Continental Illinois which was going totally in one direction. We were across the street and on the other pole, saying this is all wrong - we want to be conservative."

Unfortunately, Mr Abboud's robust approach to loan management antagonised many of the bank's longstanding corporate customers. His personal style, too, caused a big morale problem, with droves of senior managers voting with their feet. When, finally, the bank was caught badly wrong-footed by a surge in interest rates in early 1980, Mr Abboud found himself on the way out.

Had things worked out differently, he says, he might still have been in charge at First Chicago. But at least he has had the satisfaction of seeing much of his strategy on problem loans vindicated - and, of course, Continental Illinois's chickens eventually came home to roost four years later.

"I thought a mechanism really had to be found to go directly to the investing public because the problems were sufficiently large that insurance funds couldn't accommodate it," he says.

Through a small consulting company which Mr Abboud set up in 1984 after leaving Occidental, a search was mounted

for an institution to fit the bill. "All of a sudden First City kept popping out of the model as being in a region that was going along the bottom and fresh management blood."

Enter Mr Abboud and his team, with a new idea. It centred on a novel approach to the problems sweeping the Texas banking industry which he believes could be applied to other troubled institutions.

The idea was to ease the burden on the insurance funds, such as the Federal Deposit Insurance Corporation (FDIC), in bailing out troubled institutions. The aim was to harness private capital with federal assistance, using the federal money basically as a guarantee.

"I thought a mechanism really had to be found to go directly to the investing public because the problems were sufficiently large that insurance funds couldn't accommodate it," he says.

The aim was to complete the deal by the end of last year but the rescuers had to deal with a variety of problems.

Alternative reorganisation plans based on the original proposals were considered; then came the

October stock market crash. A holder of a small block of preferred shares sought special treatment, and with First RepublicBank's problems coming to the fore too, it was not until April 19 that the reorganisation was finally cleared.

But, as Mr Abboud stresses: "Anyone who has started a large project knows a pilot plan will work, but once you scale it up you really have to have a shake-down." And if the exercise was to be repeated, it would be easier.

But what of the future of First City? Mr Abboud is not short of aims and in this he must be heartened by signs of a modest improvement in the Texas economy. The bank has got off to a sound start. The balance sheet has been cleaned up and cost cutting measures are underway.

In the longer term Mr Abboud wants to create a regional and super-regional institution which is "about one third commercial, one third

in money market activities and

the rest in venture capital, capital leasing and capital market operations."

"We want to carve out a position as one of the more important energy banks in the US. Energy's a good business if you stick to the aspect that a bank should stick to. We're not partners - we're bankers."

Lending to the petrochemicals sector is another target and the bank "will do agriculture". And, says Mr Abboud, in line with his contrarian philosophy, "We like trade. We are going to invest in the resources for trade. Many banks are moving out of that business right now, we're moving in."

True to form, Mr Abboud has, via the First City newsletter, been giving his new employees a few choice examples of his style of fighting talk, which leans heavily on such football metaphors as "bank on offense" and "blocking and tackling". One of his life's great pleasures, he says, was being a consultant to the Chicago Bears in 1985.

Which company

- ...is re-building Reading Station?
- ...is selling luxury flats in Wimbledon?
- ...is hiring specialist plant nationwide?
- ...is working on oil rigs around the world?
- ...is providing computer personnel in Australia?
- ...has put the whole of the Electoral Register onto a computer data base?
- ...has provided share information offices for British Airports Authority, Rolls Royce and British Airways?
- ...has despatched 75 million pieces of mail in the last year?

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STRENGTH IN DIVERSITY



Ashley Ashwood

'I rose up through the ranks from trainee to chief executive. I didn't have any big stock position or family influence'



JUSTINIAN

The coroner has to investigate the facts when, where and how the deceased met his death. It is the "how" that is crucial.

The deceased met his death. No problem arises ordinarily as to the time and place of death. It is the "how" that is crucial. The coroner is not limited to determining the medical cause of death. It would also be insufficient for the verdict to record merely descriptively the cause of death that can properly include the circumstances of that death. It is now well established that the coroner may record that the cause of death was aggravated by lack of care/ self neglect, not only where the verdict relates to medical causes but to any circumstantial death such as accident, misadventure, lawful or unlawful killing, or suicide. A finding of "lack of care" might look as if it was transgressing the rule that no civil liability must figure in the verdict. But the courts have said that the coroner's overriding duty is to inquire "how" death occurred, only when the coroner (or the coroner's jury) is certain on the evidence that the deceased died as the consequence of a

driver of a motor car at the time of a collision, where one of the two persons had been killed. It would be improper for the coroner to consider questions of negligence or criminal liability. A verdict of unlawful killing is, however, permissible provided that no person is identified as the perpetrator. Such a verdict may be recorded only when the coroner (or the coroner's jury) is certain on the evidence that the deceased died as the consequence of a

homicide offence - murder, manslaughter or infanticide having been committed. Although a restricted verdict of unlawful killing would preserve the formal anonymity of those who shot and fatally killed the three IRA terrorists, such a finding would be both politically unwelcome and would lead to vigorous claims that the killers, who are well known to the authorities, should be prosecuted. The coroner's function is to go no further than his investigatory role.

The limited jurisdiction of the coroner is to investigate the facts when, where and how

SECTION IV

FINANCIAL TIMES SURVEY

The industry is uncertain how far the Piper Alpha disaster and the October hurricane will inhibit the softening of the market outside the US, writes Nick Bunker; while European reinsurers expect challenges from a cross-border insurance market after 1992.

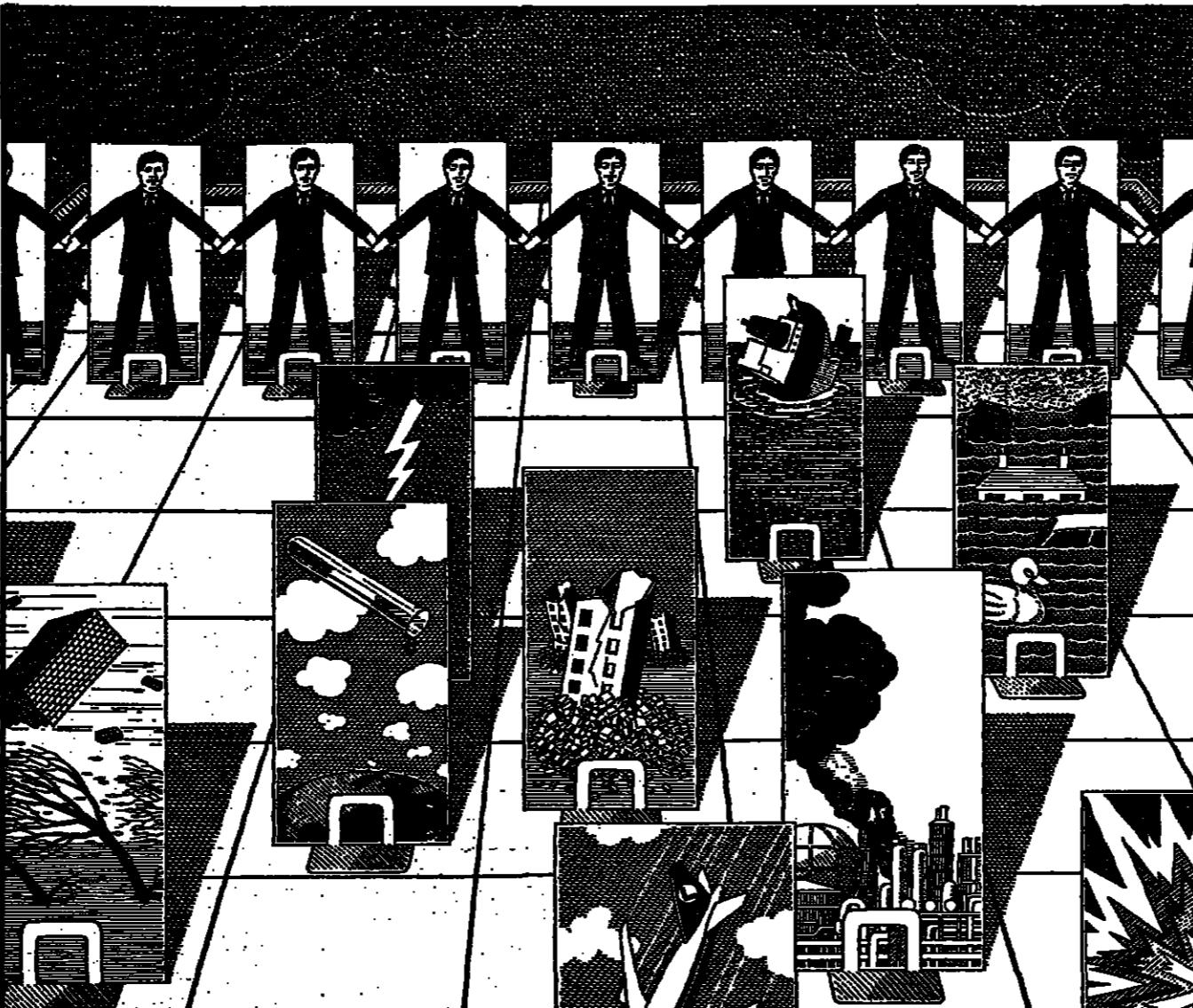
Two shocks sustained

THE WORLD'S reinsurance community assembles today in Monte Carlo under the shadow of two catastrophes which evoke comparisons with some of the worst insured losses in history - the 1966 San Francisco earthquake and fire, Hurricane Betsy in the Gulf of Mexico in 1965, or the Munich hailstorm four years ago.

Property and liability claims resulting from the explosion which destroyed the Piper Alpha oil rig in the North Sea on July 6 are now expected to exceed \$1.2bn (£716m). That would make it by far the largest single loss the offshore oil and gas insurance market has suffered since it took its present shape at Lloyd's of London in the mid-1960s.

Already Piper Alpha has prompted a drastic hike in premium rates for what London market professionals call "big specific" excess-of-loss reinsurance covers - though the word is that it will not be until next June that its full force feeds through to reinsurance pricing.

At the same time, London and continental reinsurers are grappling with the after-effects of 87-J - code name for last October's western European Hurricane. The insurance bill for 87-J's damage in the UK,



Reinsurance

markets - since easy availability of reinsurance can depress prices charged by primary carriers and, conversely, a shortage of reinsurance capacity can help drive prices up.

Nineteen eighty-seven and 1988 have been a sensitive period, because they have marked the peak of a sharp cyclical upswing in the industry's profitability. It began in 1984, when in the US - still by far the world's biggest consumer of reinsurance - premium rates began to rise again after six years of rate-cutting culminated in severe underwriting losses.

By accepting a share in the insurance business written by primary carriers, reinsurers provide a mechanism for spreading the world's risks. In turn, that exerts an important influence on domestic

markets - since easy availability of reinsurance can depress prices charged by primary carriers and, conversely, a shortage of reinsurance capacity can help drive prices up.

Hady Wakefield, deputy chairman of London's C.T.Bowring (Reinsurance), says that while rates are holding on large property-catastrophe treaties for major US primary insurers, there is "a lot of competition for smaller catastrophe business."

Some London reinsurance brokers believe that, at the year-end, US domestic reinsurers - unscathed by Piper Alpha or 87-J - will offer substantially keener rates and terms for US treaty business than their counterparts in the London market. London, traditionally, has played a key role in reinsuring US exposures.

Admittedly, the domestic US reinsurance market is softening. This has been spotted by observers at Lloyd's, who par-

ticularly attribute it to the relative absence of severe weather catastrophes in the US since Hurricane Alicia in 1983.

What seems to be happening is that the big direct writers of reinsurance - General Re, Employers Re and American Re, which deal direct with customers, rather than using brokers - now have sufficient influence over the reinsurance market to restrain rampant price-cutting.

It also looks as though the reinsurance market in the US has decoupled from pricing trends in the primary market.

Reinsurers are not providing the impetus behind the rate-cutting under way in the primary market for commercial lines of property/casualty - and, vice versa, price competition in primary business is

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□ Illustrations: Robin Maclean	

apparently not forcing parallel reductions in reinsurance prices.

"There is soft pricing in reinsurance in the US, but not the dramatic movements we have been seeing in the original business," says John Gardner, of the North American reinsurance division of Willis Faber, the broker.

There is also a well-rehearsed argument that the 1986 US Tax Reform Act will retard or prevent a descent by reinsurers into a maelstrom of rate reductions. The point is that the 1986 Act required insurers (and reinsurers) to allow for future investment income when allocating cash to their technical reserves against outstanding and unreported claims.

If, as expected, this raises tax bills substantially in 1990-91, then the reduction in cash flow could help turn the pricing cycle upwards in the primary and reinsurance markets.

Not every indicator is quite as positive for the industry. Apart from the impact of Aids on the life reinsurance, one unquantifiable problem in property/casualty is the threat of claims arising from the clean-up of US hazardous waste sites.

The true character of these losses hangs over the industry like a dark cloud with potentially disastrous consequences," wrote Mr Andre Malsonperre, president of the Reinsurance Association of America, in the US magazine Best's Review this June.

In turn, there are few auguries of an abatement of the worldwide problem of uncollectable reinsurance claims that will not be paid because reinsurers have collapsed or are in difficulties. And few actuaries would claim to have approached a solution to the complexities of computing reserves for "long tail" US-related liability reinsurance, where it may take 15 years after the inception of a treaty for claims to emerge, and ultimate settlements depend on unpredictable trends in court awards.

There are signs, though, of progress towards addressing technical shortcomings which have plagued the reinsurance community - such as London's notoriously slow exchange of premium and claims payments between Lloyd's syndicates, the com-

pany market and the brokers.

Next month London's Policy Signing and Accounting Centre, which provides central back-office facilities for reinsurance companies, is due to start operating a new mandatory claims setting scheme. It should speed up the flow of money and cut down administration by doing away with the need for every underwriter on a risk to approve settlement.

At the same time, work has continued in London on new codes of practice for the market. A working party from the Reinsurance Offices Association is understood, for instance, to have got as far as circulating a draft of its long-awaited code.

For reinsurers in London and continental Europe, however, the approach of 1992 - when the European Community is due to have created a single cross-border market in insurance - could pose the biggest challenges of the next decade.

The orthodox view - voiced by Horst Jannott, chairman of the management board of the Munich Reinsurance Company - is that 1992 will be a non-event for reinsurers. As far back as 1989, France became the last EC member state to comply with a 1984 directive providing for freedom of services in reinsurance: in theory, reinsurance experienced its 1992 20 years ago.

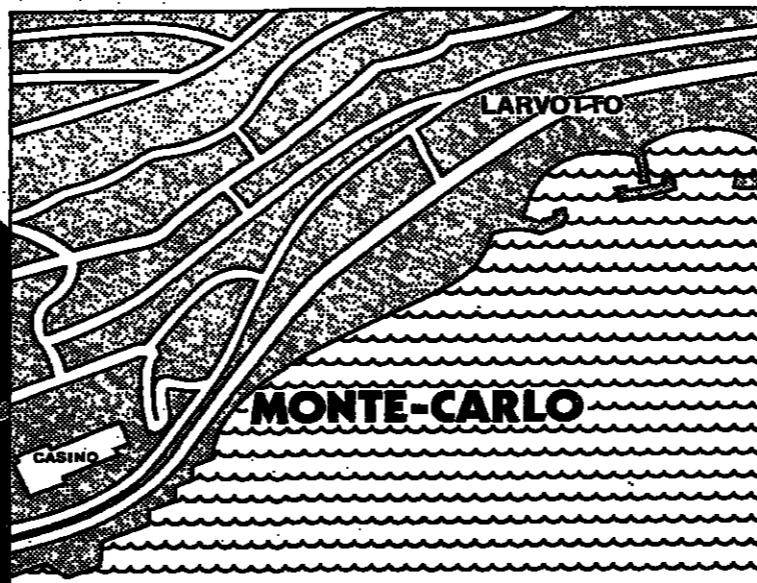
However, there is a counter argument, expressed by Jürgen Zech, chief executive of the Cologne Re. It is that the opening up of the European primary insurance market could engender fierce price competition which will erode the profitability of primary carriers, and make it that much more difficult for the big professional reinsurers - Munich Re, Swiss Re and others - to exercise discipline on the primary market.

What is more, the vogue for consolidation of the primary markets in France and Spain, via mergers and acquisitions, could reduce local demand for reinsurance if it creates bigger, stronger primary companies.

Coming on top of the existing worldwide trend for primary carriers to retain more of their own risks, that might hasten the present trend for the professional reinsurers - of which Swiss Re is the obvious example - to diversify further into the direct market by buying insurance companies in Italy, Spain and France.

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REINSURANCE 2

THE US MARKET

Rates under siege

THE US reinsurance industry stands at a crossroads. Over the next few months, it will have to decide whether to follow the primary market into its scrum of competitive rate-cutting. Or the reinsurers can hold the line on rates till the primary market has lost so much money that it will take reinsurance protection at the reinsurers' prices.

In corners of the reinsurance market, competitive pressures are beginning to build up. But industry executives are hoping that rates and profits are not going to decline so sharply as during the competitive free-for-all of the mid-1980s.

"The cyclical decline should not be so severe," says Mr Michael Jones, head of domestic treaty at American Re. "The dip will be a more shallow."

The trouble with reinsurance in the US this year is that it is just too profitable.

At the end of the second quarter, the \$14bn industry enjoyed a combined ratio of between 101 and 102. This means that US insurance companies reporting to the association are paying out just a dollar and a cent in expenses and losses for each dollar of premium they pull in. The income from investing the premiums is pure profit and companies are reporting quite healthy earnings.

General Re, the market leader, has been writing reinsurance at a profit all year, with a combined ratio of 69.1 in the second quarter. Its net operating profit increased 17.5 per cent – to \$128.5m in the second quarter over the second quarter of 1988.

These good profits are allowing reinsurance companies to rebuild their capital bases all but destroyed during the trough of the mid-1980s, when fierce competition in the primary market led to a collapse of profitability in almost every

line of reinsurance.

In the first three months of 1988 alone, the equity base of policyholders' surplus of the 62 companies that write the bulk of US reinsurance increased 4.5 per cent to \$9.07bn. This compares with a meagre surplus of \$3.88bn during the dark days of 1984, when the industry was losing \$1.25 for every \$1 of business coming in. And the increase has occurred despite the repurchase of stock by companies such as General Re and Nat Re.

In normal circumstances, the increased capital would support a higher level of premiums, which in turn would simply increase competitive pressures and force rates down. But premiums are actually falling. According to Mr Maisonneuve, premium income in the first quarter was \$184m down on the first quarter of 1987. At General Re, net premiums written have been sliding since the last quarter of 1986.

LAST TIME London's reinsurers made their annual pilgrimage to Monte Carlo, talk revolved around suspicions that premium rates and treaty terms for non-US business were softening again after three years of steep price increases.

Now, 12 months on, the market for big international property treaties is undoubtedly heading downhill; but two huge insured losses – the October 1987 European hurricane and the July 6 Piper Alpha oil rig explosion in the North Sea – have complicated the picture, to the point where brokers and underwriters are making predictions only with extreme caution.

In mid-year, there was heavy competition for most non-US property-catastrophe treaties. At the July 1 renewals – which included most Australian treaty business – the result was "a continued decline in pricing structures," says Dieter Losse, of Greig Fester, the Lloyd's reinsurance broker. "Reinsurers generally have taken the brakes off," he adds.

Reasons for the easing of non-US property excess-of-loss treaty rates – which have fallen 10-15 per cent on average this year – are not hard to find. The absence of major weather catastrophes outside Western Europe was one.

But observers also say that the big European professional reinsurers, especially the Swiss Re and Munich Re, are aggressively seeking more excess-of-loss property business at a time when, first, the trend for primary carriers to retain more of their own risk has reduced the volume of demand from buyers; and second, a lot of liability business is still looking unattractive.

In addition, Lloyd's syndicates are still awash with excess capacity – in spite of this year's surge of resignations from as many as 1,500-1,700 underwriting members – as the weakness of the US dollar and falling premium rates on direct insurance business depress their income levels.

"The international property book is still very, very attractive – and there just isn't enough of it to go round," says Ron Iles, chairman of Alexander Howden Reinsurance Brokers, who sees little prospect of the market for that type of business.

"The hardest thing at the moment is to assess the extent

in the June quarter this year, General Re booked over 18 per cent less in net domestic property/casualty premiums than in the 1987 second quarter.

The obvious reason for the decline is that the primary companies are hanging on to as much business as they can because of the healthy combined ratios on offer. "We're seeing much more steerable net retention," says Mr Jones of American Re. These conditions are forcing re-insurers to be running up to 50 per cent higher for some big insurers. This has inevitably meant that facultative reinsurance – the laying-off of individual risks on the reinsurance market – is declining as a proportion of the business being done.

A second reason is related to the tax reform of 1986. Reinsurance companies, which typically pay out years after an accident, are now required to discount their loss reserves to recognise the time it will take

1987 Top reinsurance company results (\$000s)									
Company	Net Premiums Written	Net Premiums Earned	Losses & Loss Adjustment Expenses	Loss Ratio (%)	Underwriting Expenses	Expense Ratio (%)	Combined Ratio (%)	Net Income	Gross Profit
General Re Group	2,226,802	2,253,406	1,748,349	74.3	570,482	25.5	93.8	1,682	1,935
Emerson's Re Corp.	1,257,996	1,274,005	1,018,147	78.9	249,672	24.1	93.5	1,000	1,256
American Re-Ins Co.	1,002,760	1,007,661	780,651	75.5	241,252	23.8	93.3	932	1,084
Prudential Re	692,978	700,533	525,988	76.4	204,306	22.9	93.0	900	1,045
Munich Re	647,467	654,921	438,688	67.1	204,165	27.2	92.6	1,042	1,043
Nord American/Swiss Re	473,167	410,803	295,788	75.8	95,232	26.0	92.5	1,045	1,045
USF&G Re Group	389,949	386,057	271,147	81.5	65,326	20.7	102.2	1,045	1,045
Scandinavian American Group	380,949	377,788	260,788	72.3	59,683	19.8	101.9	1,045	1,045
National Re	362,211	288,550	222,182	81.0	73,104	24.0	105.0	1,045	1,045
Transamerica Re	304,658	327,830	260,788	72.3	59,683	19.8	101.9	1,045	1,045
Kennedy Re	288,271	283,778	213,572	72.7	106,668	20.5	101.9	1,045	1,045
Continental Re	273,536	277,765	203,782	73.4	78,072	22.5	101.9	1,045	1,045
Cigna Re	246,051	251,883	191,063	75.9	60,161	24.2	101.9	1,045	1,045
Constitution State MGR	234,785	230,439	169,085	73.4	59,683	22.0	101.9	1,045	1,045
Constitution Re	234,785	230,439	169,085	73.4	59,683	22.0	101.9	1,045	1,045
Total	13,555,836	13,500,136	10,367,797	76.5	3,556,461	26.5	103.3		

before they actually pay out, "It's getting harder to grow capital," says Mr Jones. "That could help to slow down the competitive pressure."

In the treaty market, the underwriting weakness does not seem to be carrying through into lower rates. On the property side, where rates in the primary market are as much as 25 per cent down, "there isn't a lot of pressure for reducing rates," says Mr Jones. Meanwhile, the casualty business, where the primary market

is healthier, is "holding up very well," he says.

Other re-insurers report some slippage in rates and in terms. "But the market is not softening in anywhere near the same degree at the primary market," says Mr Herbert Goodfriend, an insurance analyst at Prudential-Bache on Wall Street.

The firmness in reinsurance has a lot to do with General Re, which is setting an example of market discipline. Rather than plunge surplus

capital into the business, it has said in August, "Just wait for the renewals session in November." Mr Maisonneuve keeps his fingers crossed, "I think the vast majority of reinsurance companies management vividly remembers 1984 and 1985 when combined ratios were in the 120 to 130 range and companies had very serious difficulties," he says. "They are hanging tight even if it means less market share and premium."

James Buchanan

The London market: non-US risks

Predict with caution

to which the after-shock of the October hurricane and Piper Alpha could slow up the downturn. This they could do, if they force a tightening-up of the retrocessional market, where reinsurers buy their own reinsurance.

At the 1988 renewals in London, the hurricanes led to relatively small immediate price increases for UK, French or Scandinavian treaties. "For the most part, when reinsurers were renewing last January, they were very unsure about how big the loss was going to be," says Losse.

In other words, the real impact of the hurricane probably has yet to be felt: there are signs already that, when negotiations start for the 1989 renewal season, the market will get under way in the next six weeks, reinsurers will try to increase the cost of protection for UK and French primary insurers.

"The big question is whether the rate increases imposed on the January 1 were enough," says John Pelly, Willis Faber's UK regional reinsurance manager. One reason for this is the

explosion has been to halt the past year's rate-cutting on energy-related marine LMX treaties, and force steep premium rate increases – sometimes as much as 200 or 300 per cent. Kirkland quotes a case of a Lloyd's syndicate which last month bought a layer of oil rig cover of \$5m in excess of 2.75 per cent, up from 1.35 per cent in 1987.

However, brokers say the full impact of Piper Alpha on marine reinsurance pricing – like that of the October hurricane on the non-marine market – is unlikely to emerge definitively until perhaps a year after the event.

This is because Piper Alpha exploded on July 6, less than a fortnight after the renewal of the London Master Drilling Rig Contract, a huge offshore oil and gas insurance platform off Brazil.

The estimated \$1.2bn arising from Piper Alpha – easily the biggest man-made disaster ever to hit insurers – could produce a still bigger, longer spiral of claims.

As reinsurers that have paid claims from primary carriers begin to recover money from their own non-marine retrocessional treaties, so the reinsurance broker, "Once it gets into the retro market, the cash collection could multiply five or ten times," he says – with about \$3bn falling on LMX underwriters.

The immediate effect of the

hundred effect of Piper Alpha and the October hurricane could slow down the rate at which the whole London reinsurance market is softening. If the losses falling on the retrocessional market force LMX underwriters to raise prices substantially across their whole book of business.

Yet, with 28 new Lloyd's syndicates due to start underwriting next year, few observers are laying too many bets on seeing a hardening of the London market this January.

A best guess is that most primary insurers buying non-US non-marine property cover in London will still be able to get lower rates and easier terms this January – but that reinsurers will have to pay more for their own retrocessional protection.

So – in theory – the com-



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REINSURANCE WORLD

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REINSURANCE 3

October's hurricane is still blowing through the London market

87-J will break all records

"WE HAVE experienced in our backyard the world's greatest single natural disaster in the history of insurance," says reinsurance broker Michael Stephens of Alexander Holsten, spelling out the enormity of last October's hurricane that hit south-east England and north-west France before moving off to wreak further damage in Scandinavia.

Insureds were taken by surprise by the October storm, now referred to by the Lloyd's catastrophe number "87-J".

The bill for 87-J is now over \$2bn and rising. Most is accounted for by £1.1bn property damage in the UK (76 per cent of it domestic claims), \$700m in claims from France and £100m from Norway. Claims arising from business interruption are still arriving.

The loss, says Mr Stephens, is bigger than the total sum paid to date by the market on asbestos-related bodily injury claims, and exceeds "by far" in current economic terms all the major hurricanes, earthquakes and other natural disasters that have occurred in the past.

Number 87-J dwarfs Alicia, the hurricane which hit Texas in 1983, causing losses of US\$1.1bn and the biggest previous impact on London reinsurance specialising in property and catastrophe risk through London Market Excess (LME) cover.

A DIVIDEND of FF1.50 a share may seem modest for a company earning FF2.26 a share. For France's leading reinsurance company, however, the fact of paying a dividend at all sets the seal on a difficult recovery.

Société Commerciale de Reassurance (Scor) had initially planned not to pay any dividends until it had used up its accumulated tax losses. But in 1987, despite costly disasters weighing on the underwriting result and the stock market crash depressing earnings, Scor managed to hold its own with net profit up 2 per cent to FF720m.

More important, perhaps, it has succeeded in building up its capital base, thanks to a FF2.55m rights issue last year and another FF625m issue this summer, to a level from which it has been able to embark on the acquisition trail, with the purchase of La

country has occurred in five out of the last six years, and can no longer be regarded as exceptional."

Two factors could militate against any major rise, however. First, there is no shortage of capacity in the market since 87-J and the loss of the offshore platform Piper Alpha. Second, the strength of sterling and rumours that for the Lloyd's market 1988 will be another prosperous underwriting year keep players bullish.

With new capacity entering the market, however, a substantial reduction in premiums had been expected. Although, at the end of last year, estimates of the damage caused by 87-J were much lower, its impact was still sufficient to stop the downward trend in its tracks; and at least one UK composite faced an increased bill for its reinsurance programme in 1988.

Now, with the full scale of the loss apparent, it might be expected that a dramatic increase in rates is on the cards. This is especially the case because it is generally accepted that some of the lowest layers on reinsurance contracts bought by Britain's composite insurers are still relatively cheap, and have not kept pace with the values at risk or the potential exposure. Nor do they reflect the increasing incidence of weather claims. According to Mr Stephens: "Severe weather in this

increases traditionally cheap rates sharply from 1983 onwards. According to one Lloyd's underwriter, rates increased by an average of 300 per cent between 1983 and 1987.

In 1983 underwriters had been looking for a "payback" (the number of years premium necessary to pay for the limit of cover bought) of five years or more for bottom layers and 40 years for top layers. By 1987 a two-to-three payback for bottom layers and 10-year payback for top layers had become customary.

"With 30 or 40 on your bottom line, it is difficult to see where you can increase it to without turning your client away," points out an underwriter with one of the major reinsurance companies.

After 1983, conditions were also tightened, with many reinsurers on the retromarket insisting on a "co-insurance" of 5 per cent of the total cover ceded. That co-insurance requirement could now be increased to 10 per cent, according to market sources. This is a possibility the market has considered for some time and, according to one retroreinsurer, "the storm will focus minds on it".

Richard Lippert
Contributing Editor
World Loss Report
FTBI Insurance Group

THE RELATIONSHIP between the banking industry and the reinsurance has been an important facet of the banks' wider relationship with the overall insurance market.

For banks, reinsurance is a demanding specialist area, with players looking for a high standard of multi-national, multi-currency services. For reinsurance brokers, banks have been an indispensable provider of mainstream business support, helping to develop products and open markets, in particular the US and Europe.

In 1983 underwriters had been looking for a "payback" (the number of years premium necessary to pay for the limit of cover bought) of five years or more for bottom layers and 40 years for top layers. By 1987 a two-to-three payback for bottom layers and 10-year payback for top layers had become customary.

US banks, notably Citibank, led the way in developing facilities like the Letter of Credit (LC) and the more recent Regulation 114 Trust, both designed to guarantee the collateral of non-US insurers of US business.

The traditional LC business is still growing in volume, according to Richard Holmes, vice president of the insurance banking division of Citibank: "We see plenty of capacity for growth here. UK clearing banks are starting to enter the market and we are being kept on our toes by the regulators."

He cites the regulatory change in December last year, whereby delivery for LCs was enforced and renewal periods severely restricted.

Rumours that the price of LCs may have to rise dramatically in response to higher capital requirements for US banks have led to suggestions that several players are considering pulling out of the traditional LC business. This has focused worries that Citibank's eminent position might be further

BANKING AND REINSURANCE

Trusts still on trial

strengthened to the detriment of competition.

This puts the arrival of UK banks, like Barclays and Midland, into clearer perspective. In the short term they might make small inroads into the market. In the longer term, their knowledge of the London market will help them.

To some extent Citibank's competitors have tried to develop and enhance alternative products like the Regulation 114 Trust, ironically pioneered by Citibank in late 1984. Patricia Odell of Bank of America says: "Trusts were in many ways an answer to a banking problem rather than a reinsurance problem. An alternative to LCs was needed to stimulate competition."

The development of the Regulation 114 Trust has been somewhat double-edged for the London market, where the under-writing practices complicate the Trust arrangement. However, a new generation of synthetic multi-beneficiary Trusts, which will suit the London market, is being developed. For example, Manufacturers Hanover will launch a major reinsurance product in the autumn.

Leslie Savran, vice president of Manufacturers Hanover's Escrow and Agency department, explains: "We believe that the cost of LCs can only go higher, because banks will have to put up reserves against their contingent liabilities, to

the extent where their credit rating and hence cost of borrowing could be adversely affected. The advantage of escrow relationships is that they are off-balance sheet and are not credit relationships. They are cheaper than LCs."

Using an SEC-registered mutual fund as the common vehicle, Manufacturers Hanover can create a database and manipulate it to serve the different users, informing them of their risk or credit position. "The trust contract is much cheaper than a LC - we can use a uniform document, because there is no credit relationship involved," says Savran.

Savran argues that the scheme should appeal to users of LCs who have securities as a high proportion of their assets. Manufacturers Hanover already has \$1bn in escrow relationships.

It is too early to say whether trusts will make a decisive impact on the industry. If the cost of LCs does not rise, it may be that Trusts will disappear with their principal marketing advantage. Critics say trusts are not as cheap as they might appear. In volume terms, set against the huge ocean of LC business, they are a small drop.

Andrew Freeman

Vittoria Riascificazioni, the reinsurance subsidiary of Italy's Toro group, for around FF1.50m.

The change from the early 1980s, when Scor chalked up heavy losses, is marked. The group had to refocus and focus on the areas it knew best, but now appears to have found the niches where it can make money.

Reinsurance was entirely a buyer's market up to 1975. In 1979 to 1980, when the storm rates, Scor was caught with all its tails set: it was too weakly capitalised; all its exposure was in dollars, and its exposure was excessive," comments Mr Patrick Peugeot, the former adviser to Mr Jacques Delors at the French finance ministry, who took over at the head of Scor in 1983.

The recovery plan involved cutting back the amount of business accepted, and reorganising the North American

operation, Scor Re, which was the source of much of the group's losses.

With the aim of refocusing on its domestic base, Scor has brought a broader range of French insurance groups into its capital, including the private sector insurer Axa Midi, with 10.5 per cent, and a number of mutual insurers, with 15 per cent between them; but the state Caisse Centrale de Reassurance remains, after the July 1988 capital increase, the largest single shareholder with 22.25 per cent, and the public sector still owns over 50 per cent of Scor's capital.

Yet the group managed to return an underwriting profit

heavily on earnings. The hurricane that hit southern England and Brittany cost France FF3.4bn in damage - a gross loss of FF1.47m for Scor, reduced to FF1.26m net by reinsurance. The explosion of a gas cloud over the Cézanne plant in Texas, cost Scor another FF84m net. Half-storms, floods and tornadoes cost Scor Canada C\$2.8m net.

Scor also decided to set up large reserves, both in the life department and the legal liability classes for suppliers of blood products, in order to meet the foreseeable consequences of AIDS.

With this encouragement, Scor has begun to expand again. The purchase of Vittoria Re takes it into the Italian market,

Profile: George Graham assesses Scor's impressive recovery

Rediscovering its niches

of FF1.56m, its first positive technical result for years, with especially strong underwriting profits on facultative reinsurance of major industrial risks written in Paris, facultative casualty business written in the US, and treaty business in specialised branches such as 10-year construction liability, financial cover and credit.

Investment income fell to FF1.62m, and a reserve of FF1.57m was set up to allow for portfolio losses in the wake of the crash, but net earnings remained stable at FF205m.

With this encouragement, Scor has begun to expand again. The purchase of Vittoria Re takes it into the Italian market,

where analysts expect rapid growth in volume over the next few years.

Although Scor ranks as the ninth largest professional reinsurance company in the world, and fifth in Europe, its FF3.4bn of net premiums in 1987 place it in a different league from the two largest groups, Munich Re and Swiss Re. However, Mr Peugeot says Scor's aim is not to match these giants in breadth of coverage, but to maintain its competitiveness in its chosen areas of expertise - such as large industrial plants, major construction sites and energy-related risks.



Mr Patrick Peugeot: not out to match the giants

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REINSURANCE 4

Security: John Gardner discusses some important aspects of the function

Why prevention is better than the cure

IT IS always quite easy to tell what the burning issues of the day are in any particular industry; just see what the conferences are about. Recently reinsurers have been inundated with "Recovering Reinsurance", "Irrecoverable Reinsurance", "Insolvency and Liquidations" - a practical guide to recovery.

It is clear what has been happening. Reinsurers have not been paying, either because they cannot, or will not or are just not around any more.

This quite incredibly expensive malaise is far from being "old hat". Many more millions are still to be lost, and made, by those unfortunate, or fortunate, enough to be in either the dispute or the recovery process. But it is surely time to start looking at the extent to which our industry has properly recognised that prevention is better than the cure.

Certainly buyers and sellers have now recognised that they must be infinitely more careful in drafting and conforming to reinsurance agreements to ensure comparatively the most

casually prepared and carelessly interpreted contracts of all time.

However, the principal change is that buyers have clearly come to recognise that it is vitally important to take every reasonable precaution to ensure that they are buying from sound security, from companies that will still be around when the time comes to collect and then can and will pay what they contracted so to do.

This has resulted in the security function within insurers and brokers gaining a far higher profile. Security committees are now a fully accepted and influential element in the decision-making process, and information agencies such as International Insurance Financial Services, Financial Intelligence and Research and Insurance Solvency International (ISI) have been formed to gather, process

and distribute the necessary data in formats that substantially reduce the essential labour of basic analysis.

These committees have now developed their own standards, the basic levels of performance and strength for a reinsurer that are pre-conditions to consideration as acceptable security. There is an infinitely greater awareness of the need for dispassionate, indeed cynical, examination of financial returns. The good old days of "good chap" relationships have gone forever.

Furthermore, the industry is in a manner of speaking - moving west. Controversially, ISI has always published test performances against standards, rather like the tests conducted by the US National Association of Insurance Commissioners under its Insurance Regulatory Information Service (Iris), which tries to give

early-warnings of potential insolvencies.

Failure to meet a standard is an amber light, alerting the analyst towards certain areas before decision-making. However, and this is a very real reflection of human nature and frailty, too many, often for good but, usually, bad reasons want the decision made for them. This is giving rise to the one really significant recent development in this segment of the reinsurance industry's business rating.

Rating started years ago in the US, where in the primary market the standards have long been set by New Jersey-based A.M.Best, the rating agency. Although there are some fundamental differences between the supply and demand for corporate debt ratings in the financial sector, or insurance company ratings in the US primary sector, and the

unique characteristics of the international reinsurance market, ISI and Standard & Poor's are experiencing an ever-increasing demand for ratings both as an alternative to A.M.Best on US carriers and, more significantly, on non-US reinsurers, arising from standards and demands set by in-house security committees.

This is an evolutionary process. It will be some time before it becomes standard practice for buyers to ask for a rating on, say, one of the great German or Swiss reinsurers. I cannot see an A+ or AAA reinsurance company yet being able to charge more, just as AAA corporate debt issuers pay less, as an automatic or fundamental element of the insurance rating process. Nevertheless, we may be moving in that direction.

The kernel of rating is that, however much quantitative

even with all this knowledge and bitter experience, we still find world-wide including the US that 20 per cent of companies appearing as accepted security on Schedule F have some features that call for an analyst's serious attention and a cautious decision by an insurer's or reinsurance broker's security committee.

The industry is now better equipped to avoid using poor security. It knows a lot more and is getting direct or from the rating agencies much better information and guidance, but the market place is constantly evolving. Horrendous catastrophes will happen and standards must be adapted and disciplines imposed to avoid disasters for one's own company or being harmed by disasters in others. Great vigilance in anticipating the worst means we must constantly call for better disclosure and use that information in more purposeful analysis and decision.

The author is managing director of Insurance Solvency International Ltd, the London (UK) and Hartford (US) based rating agency.

raise the cost of letters of credit and trust accounts, which could further raise the cost of reinsurance.

The additional cost attributable to increased funding requirements may cause some authorised reinsurers to forego authorised status if such status no longer qualifies the reinsurer for an exemption from funding requirements.

At the same time that the proposal might lead to a rise in the price of reinsurance, it would increase demand for reinsurance, because insurers would need surplus relief to offset the penalties to surplus that would result from the loss of credit for a portion of overdue recoverables.

As regards funding mechanisms, the proposal would deny credit for a portion of overdue reinsurance recoverables from unauthorised reinsurers - whether overdue or not - unless those recoverables are secured by letters of credit, trust accounts or funds on deposit with the ceding insurer. These are the same types of funding devices currently authorised under existing US regulatory requirements to secure unauthorised reinsurance.

If funding is difficult to obtain from an authorised reinsurer under existing reinsurance agreements, because of the lack of any contractual obligation to provide such funding, regulatory provisions in a few states may permit the non-insurer parent of the ceding insurer to put up the necessary funding.

For instance, New York Regulation 20, as amended in 1986, continues on page 5

INSURANCE REGULATORS in the US are considering a significant change in the accounting requirements applicable to property/casualty reinsurance. The change is intended more accurately to reflect the impact of overdue and uncollectable reinsurance on the financial statements of property/casualty insurers.

It would require property/casualty insurers to recognise as overdue a portion of their recoverables from reinsurers authorised in the US. In cases in which more than a small portion of the recoverables from a reinsurer are overdue, the proposal would require recognition of a portion of all recoverables from that reinsurer as overdue.

While few would question the appropriateness of requiring recognition of overdue reinsurance recoverables, given the number of reinsurer insolvencies in the past few years, there may be some unintended side-effects to adopting a change of this type proposed. Among the consequences that may result is a rise in the price of reinsurance, additional demand for reinsurance by US insurers, and erosion in the competitive position of US-authorised reinsurers compared

with their foreign rivals. The proposed accounting change is expected to be adopted this autumn by the National Association of Insurance Commissioners (NAIC). It would deny US property/casualty insurers credit on their 1988 statutory financial statements for 20 per cent of reinsurance recoverables that are 90 days past due and undisputed, unless those undisputed recoverables are secured by letters of credit, trust accounts or funds withheld.

In cases in which undisputed overdue recoverables from a reinsurer exceed 10 per cent of all recoverables, including recoverables for losses incurred but not yet reported (IBNR), from that reinsurer, the proposal would deny credit for 20 per cent of all recoverables, not just the portion overdue.

Although the NAIC discussed a proposal which would have applied only to overdue recoverables under reinsurance contracts entered into in

and after 1988, the proposal currently before the NAIC would apply to overdue recoverables under all outstanding contracts. The portion of of overdue recoverables to which the proposal would apply in 1988 is 20 per cent. The percentage to be applied in subsequent years have been left open by the NAIC, to be decided when additional data has been gathered.

Credit would continue to be allowed without funding for reinsurance recoverables in dispute, except for recoverables in dispute with an affiliate in cases in which arbitration or litigation has not yet commenced. Amounts in dispute, however, will be required to be disclosed in the annual statement.

Few would question the appropriateness of recognising overdue reinsurance recoverables on the financial statements of property/casualty insurers, especially given the number of reinsurer insolvencies in the past few years.

Nevertheless, the proposal represents a significant change from US credit for reinsurance rules. Currently, they do not require property/casualty insurers to recognize reinsurance as uncollectible prior to the declared insolvency of the reinsurer.

The effect of the proposed loss of a credit for a portion of the

its overdue reinsurance recoverables upon an insurer unable to obtain the necessary funding would be to accelerate the hit to surplus, which would result if the insurer were to write off a portion of those recoverables.

Adoption of funding requirements for reinsurance revenue from authorised reinsurers would also remove some of the competitive advantages previously enjoyed in the US reinsurance market by US-authorised companies.

Statistics published recently by Myron Picoult, insurance analyst with Oppenheimer & Co, using 1987 financial statements, show that the percentage of reinsurance recoverables to policyholders' surpluses ranges from 21.8 per cent to 331.5 per cent for 18 leading US property/casualty insurers.

Picoult calculates that the year-end reinsurance recoverables of 27 leading US property/casualty insurers averaged 110.9 per cent of policyholders' surplus. He reckons that at least 16 per cent of the reinsurance recoverables of the industry as a whole are uncollectible.

Using the figure of \$22bn as an estimate of the total reinsurance recoverables of the industry - excluding recoverables from affiliated companies - he estimates that the amount of recoverable reinsurance

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REINSURANCE 5

PROFILE: COLOGNE RE

Winds of change



Mr Jürgen Zech: reinsurance will become more complex

COLOGNE RE may be the world's oldest reinsurance company, but Mr Jürgen Zech, its chief executive since January 1987, does not show quite the same venerability.

A trim and youthful-looking 48-year-old, he joined Cologne Re (Kölnerische Rückversicherung) in 1986 as deputy chief executive after 10 years on the board of Colonia, the leading primary insurer which is part of the same group.

The company, founded in 1846, says that its 1986 net group premiums of DM1.9bn made it Germany's second biggest reinsurance group.

Cologne Re's figures speak for themselves. Despite likely claims of DM40-45m from last October's storm, which swept much of western Europe, it expects profits for 1987 to exceed the Dm2m it earned before tax in 1986.

"Nineteen eighty-seven will be a good year," says Mr Zech. Despite the stock market crash, which caused "considerable write-downs", and the hurricane, the overall result "has improved".

The better earnings also come despite the lower dollar, which reached a nadir of DM1.55 in December. Cologne Re works to the calendar year, which means it has had to use December's exchange rate in converting its US investment income, depressing 1987 earnings in Deutsche Mark terms.

By contrast, this year's stronger dollar has helped investment income perk up, and prospects for 1988 "looks better already", says Mr Zech.

But a range of other problems is confronting all Germany's reinsurers. Mr Zech takes issue with those who claim that reinsurers, unlike primary insurance companies, will escape the competition that will surge after the opening of European borders.

Nineteen eighty-two will not affect the reinsurers directly, "but indirectly it will affect us very much", he says. "It is of prime concern to our cedents. What has to be of prime concern to them has to be of prime concern to us."

He thinks a change in the nature of German primary insurance is inevitable. Not only will competition increase, but the business will also become more complex and diverse, giving reinsurers a tougher job in assessing their cedents' risks.

Rules may alter

Continued from page 4

permits the non-insurer parent corporation of a ceding insurer domiciled in the state to provide the ceding insurer with funds in lieu of funding to be provided by unauthorised reinsurers. However, such funds have to be held subject to withdrawals by and under the control of the ceding insurer; and the transaction must have the prior approval of the New York State Insurance Superintendent.

In proposing to require recognition of overdue reinsurance recoverables, US insurance regulators are making an

admirable effort to obtain more accurate statutory financial statements from the property/casualty insurers under their regulatory jurisdiction. It is not clear, however, that they have fully taken into account the potentially far-reaching consequences that adoption of their proposed accounting change may have on the cost of reinsurance and the competitive relationship between authorised and unauthorised reinsurers.

The author is a lawyer with Debevoise & Plimpton, New York

improve and structure the advice it offers, whether on difficult risks or the market in general. Improved computers and data processing should offer better service, while tackling an inevitable rise in its cost ratio. The aim is to deepen its areas of reinsurance expertise, while broadening into fields like credit and aviation.

Mr Zech thinks reinsurance will become more complex in future as risks grow both bigger and harder to assess. Product liability and pollution are just two examples that he cites. Cologne Re wants to have the right staff and systems on hand to tackle what will be increasingly tricky underwriting decisions.

Perhaps reflecting his earlier background as a senior consultant at McKinsey, it is also putting its emphasis on a more structured format. It has just set up a consulting arm, which will be responsible for advising primary insurers on both difficult risks and market developments in general.

Mr Zech denies any conflict of interest in advising primary insurers - which might have competing ambitions - on how to prepare themselves for 1988. "Being an information agent is part of our role as an international reinsurer," he says.

Wolfgang Simonson

IN THE 1960s, when Robin Jackson was an underwriter with General Reinsurance in New York, the attitude to reinsurance was, he says, markedly different from that of today.

Insurers would buy reinsurance "on a partnership basis, to allow them to write larger lines with a reinsurance partner, or new classes of business". The aim was the "leveling out of results to mutual benefit over a number of years". No longer can that be relied on, Jackson says.

Now on the verge of retirement as the Merritt group's active underwriter for Lloyd's non-marine syndicate 798, he observes, with a rather jaundiced eye what he sees as the decline in both morality and underwriting standards in the market. "Those of us who lived through the early 1980s and saw the stupidity that went on have obviously become a bit disillusioned," he says.

Few would dispute that the stupidity reached its peak in the late early 1980s, when it seemed as if people were buying reinsurance to stay in business at cheaper rates on the back of the reinsurer. The latter, more often than not, were new players, keen to write as much business as possible, in order to maximise their premium intake at a time of record interest rates.

"Reinsurers," says Jackson, "became almost green-away of their surplus and capacity, to enable other people to go out and do silly things."

Jackson is cautiously optimistic, however, about the cur-

rent cycle. So far, reinsurers have generally refrained from chasing primary rates downwards as the market softens. Not only are interest rates unlikely to reach former levels, he believes, but also "there is not a great, overwhelming desire of people with capital to pump it into reinsurance [and] I believe will keep the reinsurance market much tighter."

Retention by primary insurers is up, and the tendency of reinsurance premium globally to represent a smaller slice of the market will, in fact, persist. The future will see further "rationalisation" of the market into fewer, bigger companies with less need to reinsurance.

"They will continue to buy reinsurance for catastrophe business, but why should they need to buy it on a [daily] basis when they can do it on a bigger than the reinsurer?"

That tendency towards rationalisation will be accelerated by the free market in large commercial risk insurance in the EEC, due to be introduced in the early 1990s. Whatever the remaining uncertainties associated with that move (and there are many), it is clear that fewer, larger companies will eventually be the order of the day.

Lloyd's itself, in which Jack-

son has been involved since

1976, has, he says, "become more of a catastrophe market".

The horrors of US liability claims in recent years have meant that "on the casualty side there's not much of a market for low-level US liability business by way of reinsurance." The chances of reform of the US tort system will bring substantial relief in the foreseeable future are poor, he believes. "I don't think you can turn battleships round - all you can do is slow them down."

The greatest fear is of inadvertently participating in something akin to the asbestos claims nightmare of recent years.

Jackson is cautiously opti-

matical, however, on the concentration on facultative risks. This eliminates the dependence of the reinsurer on underwriting judgments by primary carriers.

"Treaty reinsurance underwriters, and the ceding underwriters, ended up mixing the high hazard with the low and medium hazard business, and the whole thing got out of kilter," Jackson says. "You could argue that the reinsurance market will look better over the next few years, because it will have a more controlled book of business."

Putting its money where its mouth is, syndicate 798 (due to be split into three next year) writes only 35 per cent treaty reinsurance.

'A catastrophe market now'



Mr Robin Jackson: "You can't turn battleships round, only slow them down"

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While reassurers are less perturbed by Aids than they were a year ago, many problems remain to be solved, says Eric Short

Actuaries hope to receive guidelines on reserves

LIFE REASSURERS in the UK are now a little more relaxed over the problems caused by Aids (Acquired Immune Deficiency Syndrome) than they were 12 months ago.

The numbers of death and disability claims arising from the disease is increasing, but very slowly. Contrary to the predictions of some market analysts, life companies and their reassurers have not been swamped with Aids-related losses.

More important still, life companies have reacted to the problem posed by the disease "faster and more heavily than a year ago", according to Mike Brown, chief actuary of Mercantile and General Reinsurance.

UK life companies were given early warning of the onset of Aids by the adverse experience of US life companies. Yet it was the life reassurers who stood to suffer most - because they act solely

as risk carriers, and lack the vast savings and investment business which cushions primarily life insurers. But, ironically, all too often the reassurers have to follow underwriting and pricing fashions set by the direct market.

So, for reasons of self-preservation, the reassurers assumed the role of gathering and disseminating information on Aids so that life company underwriters could appreciate the extent of the problem they faced.

Next, the reassurers set out to persuade life company underwriters to toughen up underwriting procedures they had set in introducing supplementary questionnaires on proposals from single men, designed to show whether the buyer's lifestyle had high-risk characteristics, such as promiscuous homosexuality or intravenous drug abuse. The reassurers also urged life companies to apply to single

men automatic testing of blood for the Aids-related HIV virus.

Finally, reassurers encouraged life companies to reassess premium rates and policy terms, particularly on pure risk contracts - term assurance and PHI (permanent health insurance).

This time last year, life companies had started to tighten up their underwriting standards, though at first, as far as anything as remote as Aids would have liked. But although there was plenty of talk from the life companies there was no evidence of premium rate increases or changes to policy conditions.

Twelve months on, the same has changed dramatically.

First, the Institute of Actuaries Working Party on Aids published its Bulletin No 2, which gave life company actuaries a basis for increasing premiums rates, because it death projections prepared by David Wilkie, a research partner with R. Watson and Sons, the UK's largest firm of consulting actuaries.

Wilkie himself makes no attempt to hide the underlying speculative nature of these tables, but they were swiftly used by actuaries as a basis for reassessing premium rates and setting up reserves against possible future Aids claims.

As a result, term assurance rates for males under 45 have increased, by as much as 150 per cent. Desmond Le Grys, appointed actuary of Munich Re's UK long-term reinsurance operations, now considers them to be closer to realistic levels - and reassurers, too, are now getting the required higher premiums on their life business. In addition, life companies have at last adopted the strict level of underwriting that reassurers were seeking.

On PHI, the life companies have adopted a different approach - though, again, they have followed the lead suggested by their reassurers - by excluding disability arising from Aids, or Aids-related conditions, from the cover provided by a PHI contract.

The situation has also had the effect of giving life companies the opportunity to increase their PHI rates - rates that had been far too low to meet the cost of rising numbers of claims, even without the new threat posed by Aids.

Life actuaries involved in the PHI market had, in fact, been accumulating losses since the early 1980s without taking any action.

Le Grys says he had been pressuring life companies for the past five years to put up their PHI rates. He says his own PHI reinsurance book is just in balance, thanks to hard work and a tough attitude in refusing business on too low rates. Only the arrival of Aids turned the market, leading to rate increases of up to 100 per cent in the last year.

However, while reassurers

are less perturbed by Aids than they were 12 months ago, there are still many problems to be resolved. In particular, there is the growing antipathy between life companies and doctors over the conduct of Aids testing and the disclosure of results.

The British Medical Association is warning doctors not to send Aids test results direct to life companies. Its reasoning is that potential sufferers could suffer if they learn that they were exposed to the Aids virus from a life company rather than from a medical practitioner.

The other problem facing reassurers is the difficulty of determining the size of the reserves required to cover future Aids claims.

As yet, there is no statutory requirement for such a reserve, but the Government Actuary's Department has given strong indications that it expects

appointed actuaries to make prudent provision. Mercantile and General, for instance, set up a £50m Aids-related reserve in 1987. As a UK-based reinsurer, it needs to adopt this sort of approach to satisfy the expectations of the Government Actuary and the Department of Trade and Industry.

Most other reassurers, however, are subsidiaries of giant multinational reinsurance groups - and many would prefer to hold such reserves centrally against Aids risks on their worldwide business. This is certainly the policy of Munich Re, for instance.

Now, the UK's life assurance industry is hoping that, by this time next year, the Government Actuary will have resolved some of the uncertainty by issuing - either formally or informally - some more specific guidelines on how it expects actuaries to respond to Aids when calculating their need for reserves.

Philip Harverson considers the consequences of the collapse of the Asbestos Claims Facility

New body promises greater efficiency

option last November but to vote that the facility be wound up on October 3 this year.

Mr Robin Jackson, a Lloyd's underwriter and chairman of the London Asbestos Working Party - which keeps insurers in the City up to date on developments in the asbestos saga - is dismayed at the collapse of the ACF. "Although it was inevitable, it is very disappointing because, after many teething problems, the facility was starting to perform well, and legal costs were being significantly reduced."

The facts support his case. Before the ACF was formed, figures showed that producers were winning only 28 per cent of the cases they fought, and the average settlement cost was \$600,000. Since the facility was set up, 65 per cent of producers have won in court, while settlement costs have nearly halved to an average of \$330,000. And for the first time in the facility's history, the number of claims settled every month was equalising the number of new claims filed.

Yet Mr Jackson admits the

differences between producers over how to settle claims were becoming too great. "There were those willing to deal with claims reasonably, and settle them fairly quickly. And there were one or two producers who were running out of insurance coverage and who wanted to hang on to their money as long as possible."

Although, in the end, only seven producers were in dispute, the facility had to be dissolved, because the seven were some of the ACF's largest members. As Jackson says: "Any club cannot continue to operate if some of its most important members do not want to participate."

Another factor in the breakdown of the ACF was the type of claims being filed. When the ACF was set up, the producers facing the most claims were primarily from the construction and shipbuilding industries, where asbestos has been part of the production process since before the second world war. However, in recent years more claims have been filed by workers in newer industries. Thus the allocation of liability was being complicated by the

arrival of new sources of asbestos-related claims.

Perhaps, with such problems, the failure of the ACF to co-ordinate its approach was understandable. Yet the concept of a joint approach to asbestos claims has not been discarded. Almost as soon as the vote to disband the ACF was taken, Mr Lawrence Fitzpatrick, the ACF's acting chief executive officer, began to work on establishing a new facility.

At least 29 of the original 37 producer-members of the soon-to-be-extinct ACF have already pledged their support to the planned facility, provisionally named the Centre for Claims Resolution (CCR). All 16 of the original insurers are said to be interested. Mr Fitzpatrick's team has already completed its first draft proposals, which Mr Robin Jackson and other insurers are studying carefully. They hope to have their response ready by the beginning of September.

The early indications are that the CCR should be a more efficient, potentially less divisive body than its predecessor.

Mr Fitzpatrick's team claims to have drawn up plans which allow for flexibility in the allocation of liability, and which establish a claims-handling philosophy that should be acceptable to all members.

If the CCR is accepted by enough producers and insurers, it could be up and running in time for October 3, when the ACF finally expires. It will also have a head start over its ill-fated predecessor. The rate of new claims being filed every month has dropped from its 1987 peak of 3,000, to about 1,500 every four weeks, and the size of settlements are also falling because the injuries of workers claiming now appear less damaging than those of

biggest asbestos manufacturer in the US. The trust has about \$750m at its disposal to pay asbestos claims, and some of that money may be made available to the CCR.

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workers who first filed against asbestos producers in the late 1970s.

Despite the collapse of the ACF, Mr Robin Jackson remains relatively optimistic about the future. Producers and insurers know that it is in their interest to pool their resources and co-operate.

There is, though, one dark cloud looming on the insurance industry's horizon - property damage claims.

In the past two years, claims brought against producers for damage to land and buildings have escalated dramatically. Although the legal arguments surrounding property claims are less clear cut than liability claims - which means producers tend to win in the court cases - insurers still fear that the damage inflicted by property claims could prove as crippling as that inflicted by liability claims.

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THREE PUBLICATIONS are now available from Financial Times Business Information Insurance Group. The long-established World Insurance Report newsletter, regarded

throughout the industry as the leader in its field, is now joined by the fortnightly World Loss Report and the monthly World Policy Guide. Together, they provide a specialist news reporting service designed to keep insurance market executives abreast of

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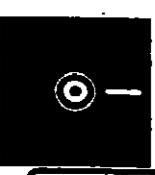
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SECTION III FINANCIAL TIMES SURVEY

 
New technology is revolutionising the printing industry, for the equipment manufacturers and users alike. Furthermore, market leaders in the graphic arts industry in West Germany, the US, Britain and Japan are finding no shortage of investors.

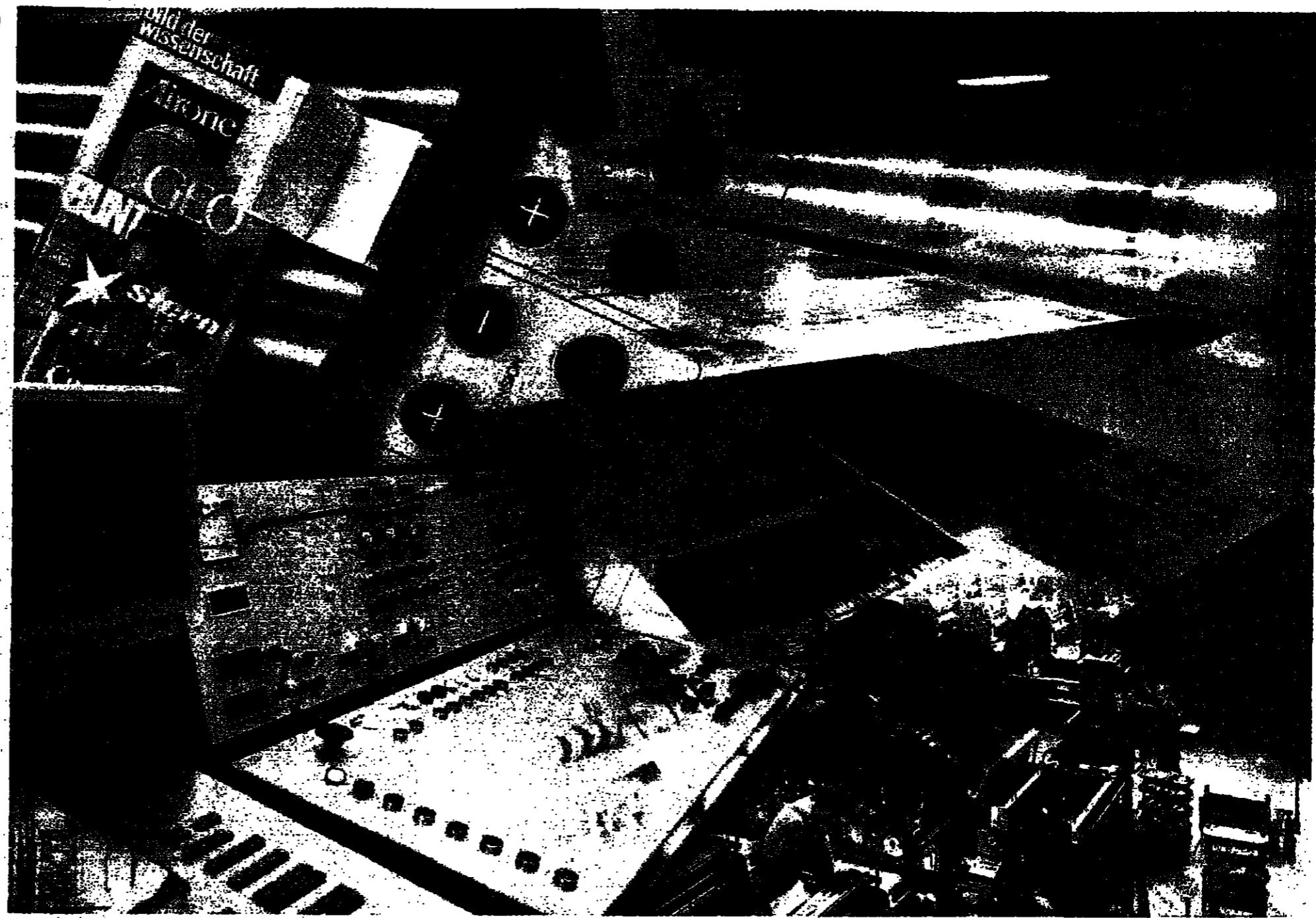
Innovation abounds

PRINTING is no longer a mysterious craft, restricted to the initiated few. Equipped with word processors and pagination software, office staff and publicity people can now produce their own laser-printed documents in a variety of typefaces.

Technological changes are sweeping through the printing industry at all levels, bringing new areas of growth, particularly for export-orientated equipment-makers in West Germany, the US, Britain, Switzerland and Japan. The UK's printing equipment sector, for example, has seen three consecutive years of increased manufacturing output - averaging 15 per cent per annum.

Meanwhile, sales of printed goods in the UK are set to reach \$6bn this year - "these are among the more obvious signs that the printing business is booming," says a spokesman for this year's IPEX show, the international graphic arts exhibition at Britain's National Exhibition Centre, near Birmingham.

More than 100,000 visitors are expected at the overflow event - the biggest trade show ever held in Britain, with 1,500 exhibitors filling the NEC complex. Sales arising from this year's event (September 6-14) could top £250m.



Printing Technology

THE IMPACT of new technology is bringing radical changes to the printing, publishing and related communications industries.

As a result, users and manufacturers are needing to identify where the thrust of this change will be greatest and how it will affect their business. Among them are the advertising, magazine, newspaper and book industries, as well as the repro sector, commercial printers, print-finishing and converting sectors.

The move to all forms of type composition, page-layout and even colour systems away from specialised com-

puter hardware to off-the-shelf mainstream computer products is also compelling manufacturers to take a long, hard look at their pre-press products.

This development, labelled 'Fourth Wave Technology' by the Seybold Report - the technical newsletter for the pre-press industry - has introduced new low-cost levels for systems that would have been impossible only a year ago.

"It means that newspapers, for example, will not buy a system from a manufacturer unless there is a commitment to standard PCs," comments

Clive Goodacre, editor of the *World Graphic Arts Directory*.

The catalyst of this 'Fourth Wave' technology was undoubtedly the per-

A full contents list for this survey appears on page three

sonal computer which has done so much to erase the mystique surrounding the manipulation of pictures and text-processing. Even as recently as

five years ago, few people were able to see that a dedicated terminal would be as obsolete as the compositor's stick by the end of the decade.

The newspaper industry, with its growing demands for totally-integrated colour pre-press systems, is also a driving force for technological change. (The colour illustration above includes part of the electronic control desk at the Financial Times' new plant at London's East India Dock).

In the UK, the printing industry is the eighth-largest business sector, with more than 9,000 commercial printers and 25,000 in-plant printers.

Evidence of the industry's expansion is seen by insatiable demand for colour from the magazine and catalogue sectors.

This year, in the UK alone, orders for 25 web-offset presses - worth, in all, around £70m - have already been ordered.

The next revolution in web-offset printing will be in robotics at both ends of the press - for feeding in paper reels at one end and collecting finished products at the other.

The printing industry's track record in the application of new technology

Continued on Page 3

CROSFIELD MAKES THE NEWS



THE IMMEDIACY OF NEWS

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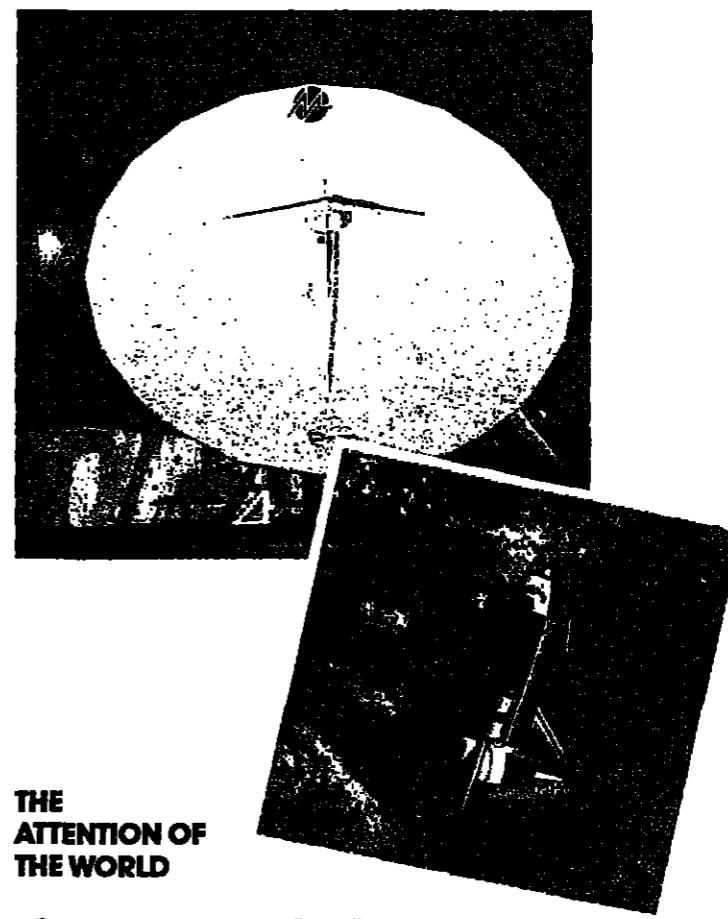


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Up-to-the-minute pictures inject a dynamism into news and sports coverage taking action reports to a new level of immediacy.

Crosfield graphic systems supply the technology to produce high quality pictures in both black & white and colour, fast and effectively.

That same technology is also used in the commercial printing market to reproduce news and feature-based colour pictures to the highest standards attainable.



THE ATTENTION OF THE WORLD

Crosfield is spearheading the communications revolution reducing the time for a story to reach the newspaper page. Image capture from video tape and electronic processing of newswire pictures help gather up-to-the-minute news whilst a variety of output options ensures that the latest stories are 'on press' in the shortest time possible.

CROSFIELD
COMMUNICATING COLOUR

PRINTING TECHNOLOGY 2

There is optimism in many parts of the industry, reports Raymond Snoddy

An era of dramatic change

THE PRINTING industry is big business and getting bigger. In the UK alone, the sales of printed goods this year are likely to top £25bn for the first time and printing is in the top ten league of manufacturing industries.

Last year in the US, the value of all products in the publishing and printing industries topped \$129bn and the sector - with more than 33,000 companies - ranked as the sixth largest employer in American manufacturing.

A mood of optimism can be felt across many parts of the industry as it becomes increasingly clear that paper and ink are not about to go out of fashion and be replaced by newer electronic forms of communication, in any foreseeable future.

An industry that a few years ago had perhaps a rather grubby, old-fashioned image, lacking the glamour of aerospace, television production or computers, has now reason for pride of its own.

Right across the industry new technology is transforming the production process and improving quality, with new magazines being launched and more newspapers making the transition to colour. The most dramatic changes have come in the pre-press area, where the text, photographs and graphics are prepared for printing.

There has been a widespread introduction of computer systems, both large integrated systems and increasingly the use of standard personal computers combined with standard software - usually referred to as desktop publishing (DTP).

Systems are available for the grandest and some of the most humble locations.

In July Atex, one of the majors in the electronic pre-press industry, announced the signing of a \$22m deal with the New York Times to integrate all the newspaper's pre-press operations, using IBM hardware.

"In a few years from a technical viewpoint we'll be running a network of nearly 1,400 workstations of varying horsepower and functionality and outputting the entire New York Times ready for the pressroom," says Ms Alice Rose, a senior vice president of the company.

At the other end of the scale, Press Computer Systems of the UK are unveiling at IPEX 88, at the National Exhibition Cen-



Confident about the prospects for the industry: Michael Leggett, left, chairman of the British Federation of Printing Machinery and Supplies (BPPMS), sponsors of IPEX 88, the biggest trade show ever held in the UK; and, right, Lord Rodney, chairman of the Printing Equipment Educational Trust.

tre, an off-the-shelf package for small publications, for \$51,000. It includes a fully integrated system complete with central processing unit, software, printer and ten terminals.

The move towards standard software and hardware is also opening up the printing industry to new entrants.

One of the latest to migrate from the computer industry is Cambridge Computer Graphics, a company with an established base in the CAD (computer-aided design) industry which has produced a colour corporate image publishing system which will run on IBM-compatible micro-computers.

Although the changes have been most dramatic in the pre-press area, including everything from typesetting to graphics manipulation, electronics have also become increasingly important in the control of modern printing presses. Computers now control the pre-setting of ink levels and also monitor performance during the process of printing to maintain overall quality and cut waste.

Yet, despite the obvious rapid rate of change, Mr Michael Hancock, director of the Printing and Information Technology Division of Pira, the printing, packaging and paper research body, believes that automation still has a long

way to go in the industry.

The main problem facing the industry, he believes, is not the technology itself but how it is to be managed and used effectively and the fact that different people with different skills are now required for that task.

A shortage of people with the right computer-based skills is seen as being inevitable unless greater efforts and resources are devoted to training in information technology. Groups such as the Printing Equipment Educational Trust in the UK are also seeking to raise cash to re-equip colleges, (see page 10).

Changes in technology have dramatically changed both relationships and industrial relations in the industry. With increasing sophistication, more control tends to go to the originator of a piece of work sometimes leaving less added value for the conventional printer.

Margins can be squeezed when a printer is presented only with computer discs or plates ready for printing compared with the old days when work would be re-keyed. The growth of corporate publishing demonstrates how the process can go full circle with large companies deciding to take full in-house responsibility for all their publishing needs.

Despite the drama of industrial relations in what was

Fleet Street and Mr Rupert Murdoch's transfer of his national titles to Wapping, the paper, print and publishing industries have overall been among the most peaceful and an orderly system of national agreements has survived.

The UK industry has shown real productivity increases averaging 7 per cent a year since 1980. Furthermore, orders lost to overseas competitors, when the British industry was seen as a sick man of the European printing industry, are starting to be won back.

Perhaps the most obvious symbols of investment and new technology can be seen in London's Docklands. There, many of Britain's national newspapers, including the Financial Times, have built up-to-the minute printing plants with computer-controlled presses all with sophisticated colour capacity - part of the £1bn investment, including redundancy payments, which the national newspaper industry has made in the future.

But they can also be seen in the restless overseas expansion of companies such as Mr Robert Maxwell's BPCC which has bought its way within less than two years to second place in the US contract printing market and the leading printer of Sunday magazines in the

US. According to Papas, the Wimbleton-based printing and publishing consultants, the level of confidence from printers and print-buyers has remained high over the past year with more than 55 per cent of companies expecting improved prospects.

The consultants are forecasting growth across all the main sectors of the print market from business forms and labels to books and magazines. The highest rate of growth - 10 per cent - is expected for commercial printing with direct mail buoyant and short-run catalogues for the specialist market still expanding.

In the UK there has been a dramatic concentration of power in the hands of the big players through acquisition by firms who have the financial muscle to invest in the latest technology and to concentrate in a single product of a particular size.

While there will always be a place for small companies occupying niche markets, industry specialists fear there will be a growing squeeze on medium-sized companies with a turnover of perhaps £2m a year.

It is not only Mr Maxwell who has been on the acquisition trail. For example, St Ives, a company which last year had sales of £56m and is now the second largest in the UK, has made four major acquisitions, in particular the purchase of Burrows from United Newspapers.

Some analysts foresee that the bulk of the printing industry could end up in the hands of 10 major players.

The move towards large international corporations will be further encouraged by the growth in satellite and facsimile transmission.

Yet the future of the printing industry looks far from monolithic. There seems to be ample room for a variety of different technologies and processes aimed at their appropriate markets.

The death of the small printing press sector has, for instance, long been forecast in the face of the advance of photocopiers and more recently of desktop publishing.

The small printing press sector has, however, stubbornly refused to die and press manufacturers report an annual market for more than

3,000 machines a year in the UK alone.

They argue that small presses are cheaper than photocopiers on print-runs above 50-100 copies and that laser printers and desktop publishing (DTP) systems are still no substitute for traditional offset presses, in terms of quality.

While arguments over quality continue, what is not in dispute is that the combination of powerful microprocessors computers, high resolution graphics screens and laser printers allows sub-editing and page make-up on inexpensive personal computers, such as the Apple Macintosh.

Mr Eddie Shah, founder of the Today newspaper, plans to launch his new popular newspaper The People with networked Apple Macs later this autumn. (see page 10).

Supporters of desktop publishing claim that anything from a simple newsletter to a full colour magazine can now be prepared on such systems.

Some experts complain, however, that the supporters of DTP have raised expectations too high and that the resulting disappointment is one of the reasons why corporate or in-house publishing has taken off much more slowly in Europe than in the US where the market is estimated to be worth \$500m a year and growing at an annual rate of between 20 to 30 per cent.

Those who have installed corporate publishing systems have tended to be restricted to large organisations in the petrochemicals and aerospace industries which have used their own internal systems to produce such items as technical manuals and sales literature.

The overall growth in printing, by whatever method the image is transferred to paper, has ensured a strong market for printing equipment manufacturers, particularly in West Germany.

The West Germans claim to dominate the world printing equipment industry, with sales last year worth DM 5.5bn (£3bn), 76 per cent of which was exported.

The value of printing equipment manufactured in the UK is now worth £200m a year, two-thirds of which is exported, according to the British Federation of Printing Machinery and Supplies.

West Germany continues to dominate much of the printing equipment industry

International leader

FIVE CENTURIES after Johann Gutenberg invented movable type, printed his famous version of the Bible in Mainz, and took the printed word out of the dark ages, West Germany dominates the world printing equipment industry. Not only is the biggest printing machinery-maker German, but so also are the second biggest and the oldest.

Since Harris Graphics has a profitable plant in France, at Montreuil near Paris, Heidelberg Druck was concerned to prevent Komori obtaining a production foothold in Europe by buying the US operation.

The German company intends to modernise the French plant, as well as boosting Harris's exports from the US, where it has a share of around half of the commercial web offset market.

Although Heidelberg, with a turnover (excluding Harris's) of

concentrate mainly on Asia and North America, but they are now carving out bigger positions in Europe.

Since Harris Graphics has a profitable plant in France, at Montreuil near Paris, Heidelberg Druck was concerned to prevent Komori obtaining a production foothold in Europe by buying the US operation.

The German company intends to modernise the French plant, as well as boosting Harris's exports from the US, where it has a share of around half of the commercial web offset market.

West German printing machinery exports

	DMm
US	721
France	587
UK	364
Italy	319
Switzerland	273
World Total	4,812

Includes composing & reproduction equipment (DM 631m of total)

Source: West German mechanical engineering industry association (VDMA)

near \$400m) of more than DM 2bn which has doubled in five years, and MAN Roland, with some DM 1.5bn, are far and away the leaders in the industry. But the biggest, Heidelberg Druckmaschinen (also widely known as Heidelberg), made news recently when it agreed to pay \$300m for the Harris Graphics division (including its web offset business) of AM International, the US office equipment concern. Heidelberg Druck thus stole a march over Komori, its Japanese competitor, which had also been keen to buy Harris.

While the two big German companies are in strong competition with each other, though their product ranges differ considerably, both are coming under increasing pressure from Japan.

"Competition will undoubtedly become tougher," says Mr Helmut Wohland, the chief executive of MAN Roland. The Japanese, he notes, used to

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PRINTING TECHNOLOGY 3

Competition intensifies in the US printing industry

High cost of staying up to date

THE US printing industry has been enjoying favourable economic conditions in recent years, but there is still cause for some concern within the sector. New technology is impacting every facet of the industry and causing some fundamental changes in the way it does business.

The underlying goals of these changes are to return more control to print-buyers and to simplify or automate the printing process as much as possible to increase productivity and improve quality. Though some progress has been made, by and large, it has been a case of promises unrealised.

The undisputed king of US printing remains offset lithography. According to the Graphic Arts Technical Foundation, offset lithography accounts for more than 75 per cent of all printing-based on value added to raw materials in the manufacturing process.

Based on US Department of Commerce estimates, the value of all products and services sold by the printing and publishing industry in the US totalled \$120bn in 1987. Shipments are expected to be 3.3 per cent higher in 1988, adjusted for inflation, according to the department's Industrial Outlook 1988.

Printing and publishing ranks as the sixth largest employer in the US manufacturing sector, with more than 53,000 companies. Although small, family-owned operations constitute the bulk of this number, the US printing industry is dominated by a relatively small number of printing companies: RR Donnelley & Sons of Chicago, Illinois is the unchallenged leader, with \$2.4bn in 1987 sales. The top five companies each had total sales of \$1bn or more in 1987.

To talk of the US printing industry as a single entity is a misleading simplification. Just the above top-five printers include one book and magazine printer, two business forms printers and two greeting card companies. These five companies use a range of printing processes including offset lithography, flexography, letterpress and gravure.

The US Department of Commerce divides the printing industry down into 12 segments. Therefore, to examine the impact of technology on the US printing industry encompasses a considerable breadth of issues, with varying impact on the individual segments. There are, however, several developments receiving most of the attention.

As mentioned, much of the talk surrounding new developments has been positive for the future and not reality for today. Such is the case with the flexographic printing process.

Offset lithography grew to dominate the US printing industry because of its high quality and productivity. Since the process depends on chemical interactions and not just mechanical operations, it is considerably more complex and requires greater skill to operate.

Flexography offers the simplicity of raised image printing and the vibrant colours of water-based inks, but it also has a number of significant drawbacks. The most serious problem is that flexography cannot produce images with a

resolution as high as other printing processes. Its images are not as crisp.

There are a number of other problems with the process, too, including higher cost plate materials and some difficulties with inks. Nevertheless, flexography's potential advantages have spurred the investment of a great deal of time and money by a large number of suppliers and printers to overcome its faults.

If flexography ever achieves a quality level competitive with lithography, it is expected to steal away a large share of the printing market because of its lower cost, ease of use, colour quality and reduced environmental impact.

To date, flexography has gained little acceptance outside of the newspaper industry, except for a few printers producing some lower-quality advertising inserts and directories. Still, the sheer magnitude of the development effort and the level of interest in the prices have many industry experts optimistic about flexography's future.

One possible glimpse of the future was provided by the Flexographic Technical Association (FTA). The association produces a four-colour magazine for its members called Flexo. Last year, the FTA in conjunction with Greener Buffalo Press of New York and several flexographic equipment companies tested the viability of printing a four-colour magazine via flexography.

A four-colour, 32-page Flexo signature on coated paper was printed at Greater Buffalo and

papers anyway, the industry has seemed more willing to try out this newcomer.

While the list of newspapers in the US printed by flexography continues to grow (some 30 newspaper titles at present) others have tried it and decided to stick with lithography.

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A four-colour, 32-page Flexo signature on coated paper was printed at Greater Buffalo and

had little impact on the US printing industry. Printers being able to produce images on a personal computer and output final printed pieces on a laser printer was considered by some to be obsolete traditional printing processes.

At present, the resolution and productivity of desktop publishing systems are judged to be too low for most printing applications. The graphics creation capabilities of these systems have won many converts in newspaper and technical publishing applications, though, due to their lower quality demands.

The industry has been most successful in using otherwise idle presses to print advertising inserts which the newspaper already have contracts to carry in their fold.

Although most people tend to think of printing in terms of the press room, it is in the pre-press arena where most of the developments have occurred of late.

Colour electronic prepress systems (CEPS) revolutionised prepress operations by eliminating many manual manipulations and offering previously unavailable colour correction and image manipulation capabilities.

There is a downside side to this technology, too. Most large colour trade shops and printers virtually were forced into installing \$1m or more CEPS. Even if demand was not sufficient to justify adding this capability, customers threatened to take all their work to other shops with CEPS, based on the presumption that they would need this advanced technology on occasion.

The end result has been under utilisation of CEPS capability, with many shops allowing equipment to sit idle or using it to do simple tasks that cannot be justified on the basis of cost.

Some trade shops have turned to the skies for a solution to this problem – companies owning multiple colour houses are linking their shops via satellite. In this way, every location need not have a CEPS in-house to offer this capability and work loads can be more evenly distributed.

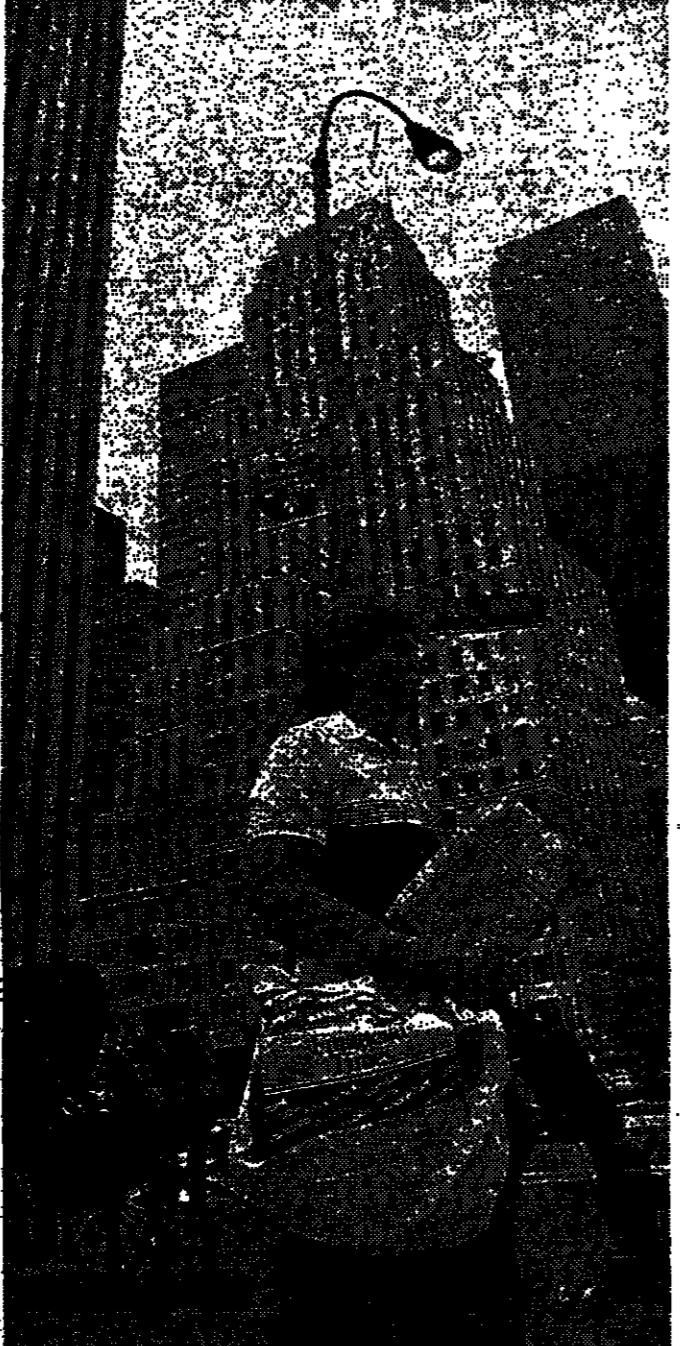
Eventually, these satellite networks could be used for beaming finished digital images directly to printers for plate-making and printing.

A number of trade shops are also experimenting with creating electronic links to their customers. Low cost electronic design systems have been introduced that can be interfaced to CEPS. Design systems typically produce a lower quality result and have only limited capability.

However, many trade shop customers can afford to bring this technology in-house because of its lower cost. Preliminary design work can be done on these systems and then transmitted to the trade shop for final image preparation on a CEPS.

Developments in the United States Design systems can also be used as remote proofing stations for work done at the trade shop. Trade shops can call but lock in their customers by setting up these links, and some even sell the design systems.

Despite much hype and some hysteria, the wonder technology of desktop, or electronic publishing and printing, has



Picture by Terry Kirk

The Financial Times on sale in Manhattan, New York City, made possible through facsimile technology. International editions of the FT are also printed in West Germany and France.

Big boost for productivity

Continued from page 1
is probably unbeaten. For example, the demands of the industry for data transmission are far above other industrial requirements in terms of capacity, speed and error-correction.

Technology is bringing faster press speeds and rising productivity. Artificial intelligence in the pre-press field and

automatic printing controls in areas such as inking are enhancing the output from web and sheet-fed machines.

The advent of desktop publishing is also boosting the awareness of typography and layout in business communications. This, in turn, is raising standards in the presentation of business documents.

Specialist printing houses can now be linked together via digital communications to meet the highest demands of the advertising industry. Many of these latest innovations in the industry are being unveiled at IPPEX '88, the international graphic arts exhibition, sponsored by the British Federation of Printing Machinery and Sup-

pliers (BFPMS) at Britain's National Exhibition Centre. (September 8-14).

"Such is the speed of change

that just when you think a new development isn't going to happen, that's usually when it does," comments one industry analyst.

Michael Wilshire

Heidelberg's prominence is based on sheet-fed machines, sold mostly to the small and medium-sized printing firms who have found business escalating in recent years as the so-called 'colour explosion' has burst through the industry.

It is also involved to a lesser extent in web offset, with the Harris Graphics purchase adding to its position here. At MAN Roland, production ranges from small sheet-fed offset machines to big magazine

and newspaper presses of the type ordered by Mr Maxwell and Mr Murdoch.

Koenig & Bauer, with a turnover of nearly DM500m, also counts large-scale international publishers among its customers. Mail Newspapers of the UK ordered eight big web-fed letterpress rotary machines last year, the last to be delivered this month. This followed successful contracts in the US with newspapers in Florida and Rhode Island. The Würzburg-based company also co-operates with Sumitomo of Japan's printing machinery division, which builds and sells rotary offset machines for the Japanese and Far Eastern markets.

As in other key engineering sectors like textile machinery, Germany has managed to build and keep its lead despite a steadily rising currency which has made exporting more costly, though the D-mark has eased this year. Since purchases

Andrew Fisher

ers are obviously concerned to acquire the latest technology, German manufacturers have striven hard to modernise their products and their production methods and maintain their reputation for quality, reliability and punctuality.

But their home market is also important, despite their heavy reliance on foreign sales. The colour explosion has affected Germany as well as other markets, and magazine, newspaper, and book publishing has grown enormously in a country which is one of the world's richest.

"Germany is still a growth market," says Mr Hilmar Dosch, finance director of Heidelberg Druck, with satisfaction. Even so, it is the foreign customers who make the running. The Gutenberg revolution has become a powerful economic as well as cultural factor.

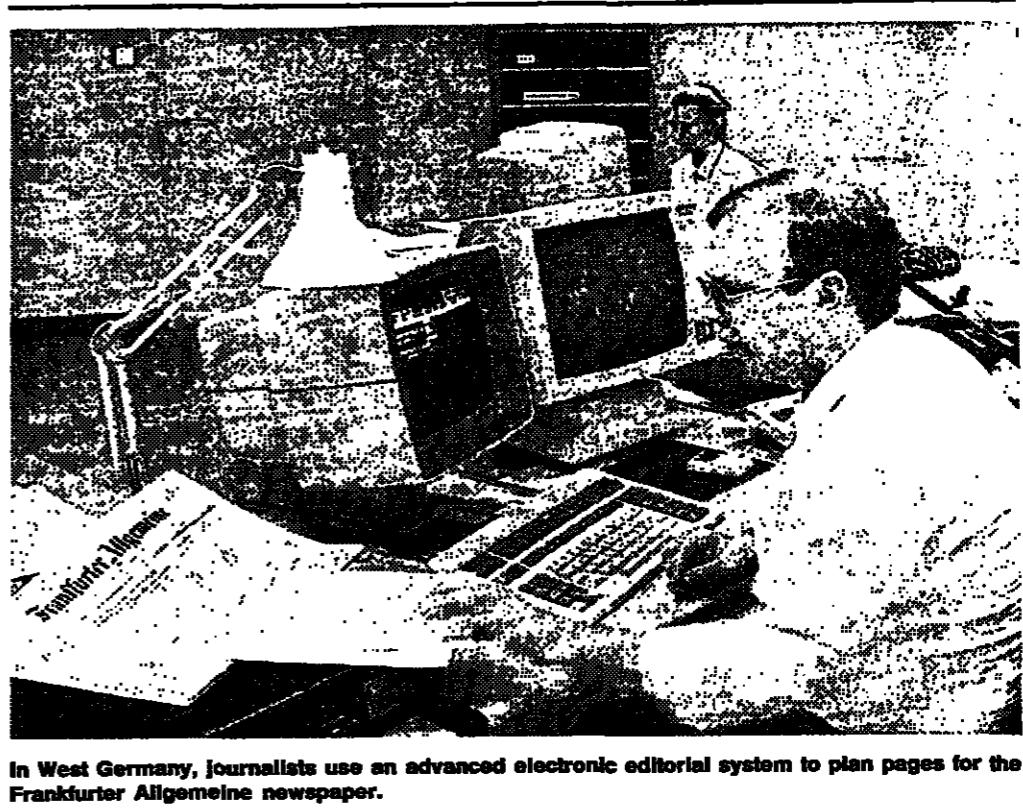
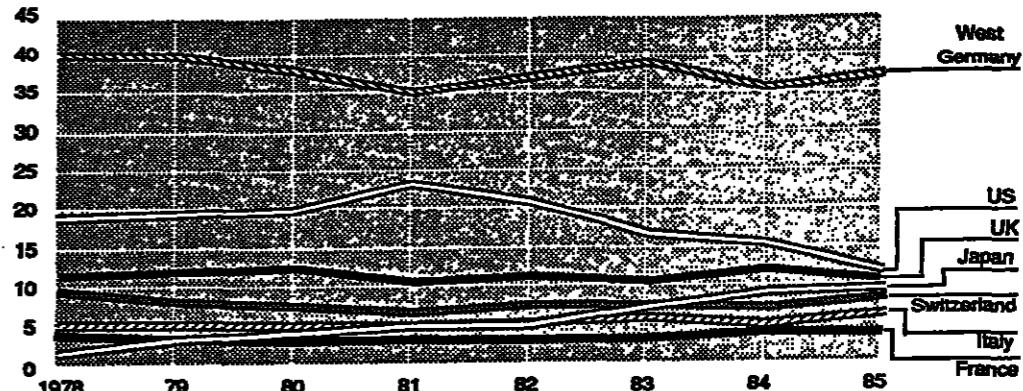
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- Future trends. - Page 16

Export trends in graphic arts products

Percentage share of OECD exports



In West Germany, journalists use an advanced electronic editorial system to plan pages for the Frankfurter Allgemeine newspaper.

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PRINTING TECHNOLOGY 4



Heidelberger's turnover has doubled in the past five years

Andrew Fisher profiles Heidelberger Druck

Undisputed leader in the industry

WITH A turnover of more than DM2bn (£1bn), a West German labour force of 7,500 people, and a total of some 350,000 machines delivered to customers, Heidelberger Druckmaschinen is the undisputed leader of the world printing machinery industry.

Big though they are, its nearest competitors, MAN-Roland, also German, and Komori of Japan, are still a good deal smaller than Heidelberger Druck - widely known also as Heidelberg. Recently, it agreed with AM International, the US office equipment group, to buy the Harris Graphics division with its web offset business (Web Press).

Thus, at one stroke, Heidelberger Druck is adding about a third to its size, with Harris having a turnover of more than \$350m. Through the deal, which is Heidelberger's first plant purchase outside its German base, the company is acquiring new capacity that is not only in the US and Mexico, but also in Europe, already its biggest market.

Heidelberger outbid Komori for Harris. The Japanese company was convinced that it would acquire the US company and thus obtain a strong production foothold in Europe with Harris's French plant at Montataire near Paris. Thus the German company has kept its main Japanese competitor at a distance through the planned purchase of Harris, while also gaining important

new capacity across the Atlantic, where its second biggest market outside Germany lies. "This is a big step for us," says Mr Hilmar Dusch, the finance director. "We know the US company's technology and its customers, so the deal will complement our existing programme very well."

Initially, Heidelberger will concentrate on increasing Harris's order book of around \$300m, lifting its export business, especially in Europe and Asia, and smoothing out production problems at its new components plant in Dallas, Texas. It will also modernise the profitable French parts and assembly operation, which employs 700 people out of the total Harris labour force of 2,700.

The German company, founded in 1850, is predominantly in the sheet-fed offset business, so there will be little overlap with Web Press. More than 90 per cent of Heidelberger's turnover comes from highly flexible sheet-fed machines which run at a top speed of 11,000 prints an hour, or three sheets a second. For web offset machines, handling long print runs, speeds are much higher: 40,000 prints an hour, or 11 per second.

Thanks to the tremendous rise in the use of colour, Heidelberger's turnover has doubled in the past five years. Last year its net income jumped from DM184m to DM248m. Indirectly controlled by Rhenish-

Westfälisches Elektrizitätswerk (RWE), the big German utility, it currently invests around DM125m a year in the US deal is being financed internally - and sells in 130 countries. Every 10 minutes of every working day, a machine leaves the plant for delivery.

In addition to its German employees, the company can also call on some 4,000 technicians, engineers, and printing advisers at more than 200 service offices around the world. This is an essential back-up to its production and sales efforts, with a heavy emphasis also placed on training, both of employees and customers. The company has almost 600 apprentices, nearly 8 per cent of its German workforce, a high proportion even by the standards of such a training-conscious country as Germany.

Heidelberger Druck is not only the world's biggest company in the sheet-fed industry, but it also has the world's largest printing press factory, at Wiesloch near the Heidelberg headquarters. It also has a new DM400m, highly automated, plant at Amstetten near Stuttgart. Its control of the production process goes from the foundry to the software with electronics playing a key role in the speed and flexibility of modern colour machines.

"We tried working with other software firms, but it was too slow and frustrating," says Mr Dusch. "So we did it

ourselves." Heidelberger has a new DM60m electronics facility and turns out some 2m electronic components a year.

At its main plant in Wiesloch alone, it has more than 700 computer-controlled (CNC) machine tools. It makes most of the components for its printing presses and is thus more heavily integrated than most competitors. It buys in only around 30 per cent of its materials, while other big companies purchase more than 50 per cent.

How about the future? "If the world economy continues to grow, we shall grow too," comments Mr Horst Schlayer, the sales director. The whole printing industry, he notes, has become far more colour-oriented than it used to be, partly through the influence of colour television. Most of Heidelberger's customers are small and medium sized printing firms, in stiff competition with each other. It is not involved in high-circulation newspaper and magazine printing.

To stay in the race, its customers need the latest technology - "today the four-colour routine is not enough," adds Mr Schlayer. "Now, the equipment can handle six colours." There are other refinements, too, such as numbering, perforation, and the application of special coatings for advertising and promotional work. Alto-

gether, some 65 per cent of the printing on Heidelberger's presses is linked to advertising or marketing in some way.

Nearly 80 per cent of its turnover is achieved abroad. After Germany and the US, its third most important market is the UK. It is also strong in Japan and the rest of Asia. With Harris Graphics, the German group will both enhance its position in North America.

Harris has approximately half of the US commercial web offset equipment market - and be able to offset some of the impact of the strong D-mark on its web offset business, though this year has seen the German currency weaken against the dollar.

Heidelberger does not have any further acquisition plans for the moment, says Mr Dusch.

"We have been cautious in the past and we will remain so in the future." But to keep up with the market, it will have to maintain its investment, research, and production pace.

Printing companies need to keep their machines for up to 20 years. They still last that long, but are now usually replaced in half that time or even less.

Around 80 per cent of the world's 150,000 printing concerns employ 20 or fewer people, and the pressures in the market are intense. Thus says Mr Schlayer: "We have got to modernise all the time."

MAN ROLAND

World record order

printing equipment subsidiary.

"Being a subsidiary of the MAN group is very helpful to us, especially when it comes to increasing our room for manoeuvre in financing," he says.

But durability does not rule out the chance to change, he stresses. MAN Roland makes much of the fact that its machines - and especially the huge Colorman range ordered by Mr Murdoch and Mr Maxwell - are predominantly used in the general printing and packaging industries thanks to their ability to handle paper of varying size and thickness. Thus while its spectacular newspaper presses may have captured the headlines, some DM450m of MAN Roland's DM70m investment programme to the early 1990s is to be spent on DM250m for roll presses in Augsburg.

The fact that there is now no big US producer of sheet-fed machines has given foreign groups a great advantage, and virtually all the sheet-fed presses now sold in the US now come from Europe or Japan.

But the US market is not the only example of the increasingly tough battle being fought in printing equipment - whether roll or sheet-fed.

In the past, the contest was predominantly between German and US manufacturers. But in recent years, Japanese groups like Komori and Mizushima have been making their presence increasingly felt.

"Japanese activity used to be directed to the Asian and north American markets, but it is now becoming stronger in Europe," admits Mr Wohland.

Established contacts with newspaper proprietors has also played a part. Offset printing is now fast becoming the standard and batter of newspaper publishers around the world, who are replacing their older letterpress machines. But not all printing equipment manufacturers were as quick to grasp the importance of offset technology as MAN Roland, which has always had a substantial part of its business in this field.

Although the company as a whole can offer a range of offset, letterpress and gravure machines - the three key printing methods - offset accounts for some 22 per cent of group turnover now.

Good and long-established customer relations are another of the themes stressed by Mr Wohland. Relations with Mr Murdoch, for example, had been nurtured over many years from the days when his press empire covered only Australia.

However, MAN Roland presses are not only to be found at newspaper plants in the UK and Down Under. In Germany, readers of the popular mass-circulation *Zeitung* also see the fruits of its technology, as do subscribers to the *Sueddeutsche Zeitung*, the quality *Munich*-based daily. Elsewhere in Europe, Holland's *De Telegraaf* and Le Figaro of France are also printed on MAN Roland

"In both sheet-fed and roll machines, Japanese competitors are using well-proven technology, much electronics, high automation and low prices to build up their market positions," he says.

"But in Europe, they are coming to a market characterised by demand for the highest printing quality and flexibility, and which requires manufacturers to have great know-how across the whole spectrum of process and plant technology. Competition livens up business - even ours."

Helg Simonian
Frankfurt



British Newspaper Printing Corporation's Watford press hall with its 12 MAN Colorman machines

AUTOMATION

Full automation predicted by mid-1990s

making on to cylinders within a printing press.

Some analysts predict that by the mid-1990s the "all-automatic" production of newspapers will have become feasible. Paper-handling is already virtually automatic, with robots taking reels of paper to presses and lifting them in for printing.

Pioneering systems in Japan by Asahi Shimbum and Daikin-Pon Printing have impressed the world of printing. Now, many other manufacturers are following their lead.

Some larger European magazines already employ direct page transmission in rotogravure, where assembled colour and text pages can be linked to front-end systems to allow the electronic engraving of printing cylinders. There are also German and Japanese systems which allow direct offset plate-

available from companies such as Comco, Felt and Sony. The pictures thus taken can be sent directly over telephone lines from newspaper offices worldwide.

Laser printers capable of producing fine-resolution images will dispense with film; erasable laser disc storage, such as available from Diapac-Tandy and Sony, have impressive storage capacity and could be coupled to low-cost personal computers to bring about much-needed savings.

Laser exposure could go direct on to press cylinders, too. Films and plates in intermediate stages of production would no longer be needed.

As yet, however, most newspapers have found they prefer to work with film as a storage medium because it is easily checked, changed and updated.

All-electronic systems for printing mass-circulation newspapers and magazines will also demand highly skilled operators to work them.

Bold experiments in the US at *Newsweek* magazine, for instance, where all colour pages were to be created in editorial offices in Manhattan have now given way to a more realistic approach. The equipment has been moved to an expert reproduction house, linked to the publisher via satellite transmission. From the repro house, satellite transmission sends complete pages to numerous remote printing centres.

Newspaper and magazine journalists on larger publications are continually needing to assimilate new production techniques available to them through advancing technology.

Few editors or other journalists, however, would claim to be electronic wizards. That fact alone will probably delay the widespread total automation of newspaper printing.

Pinus Jasper

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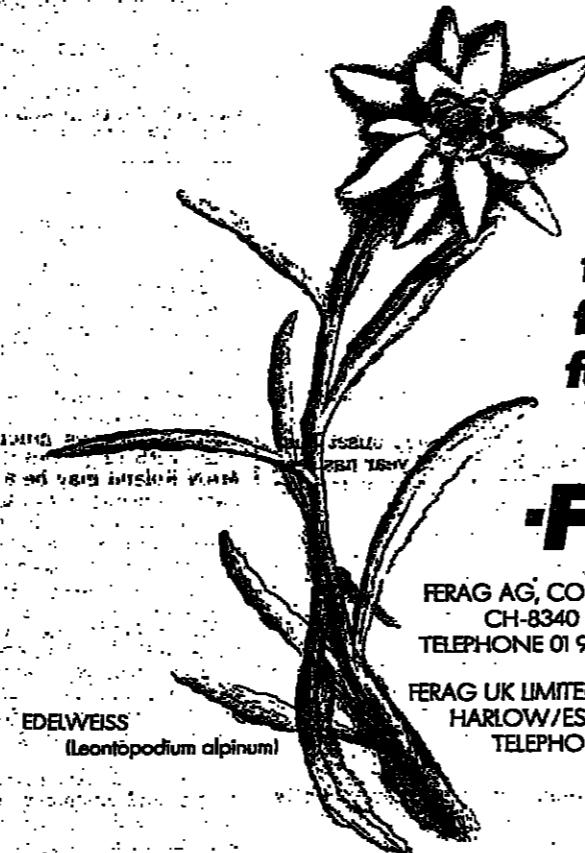


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PRINTING TECHNOLOGY 6



The FT's satellite receiver at Evergreen, New Jersey and, right, printing in Roubaix, near Lille

WHEN President Reagan and Soviet Premier Mikhail Gorbachev bid farewell at the end of their meeting in Reykjavik, Iceland, the world's photographers were on hand. Just hours later the colour photograph of the handshake appeared in America's *Time* magazine.

The incident shows just how quickly newspapers and magazines need to act if they are to keep up with rival publications and media, such as television and radio. To meet those targets publishing houses around the world are installing industrial facsimile (fax) machines.

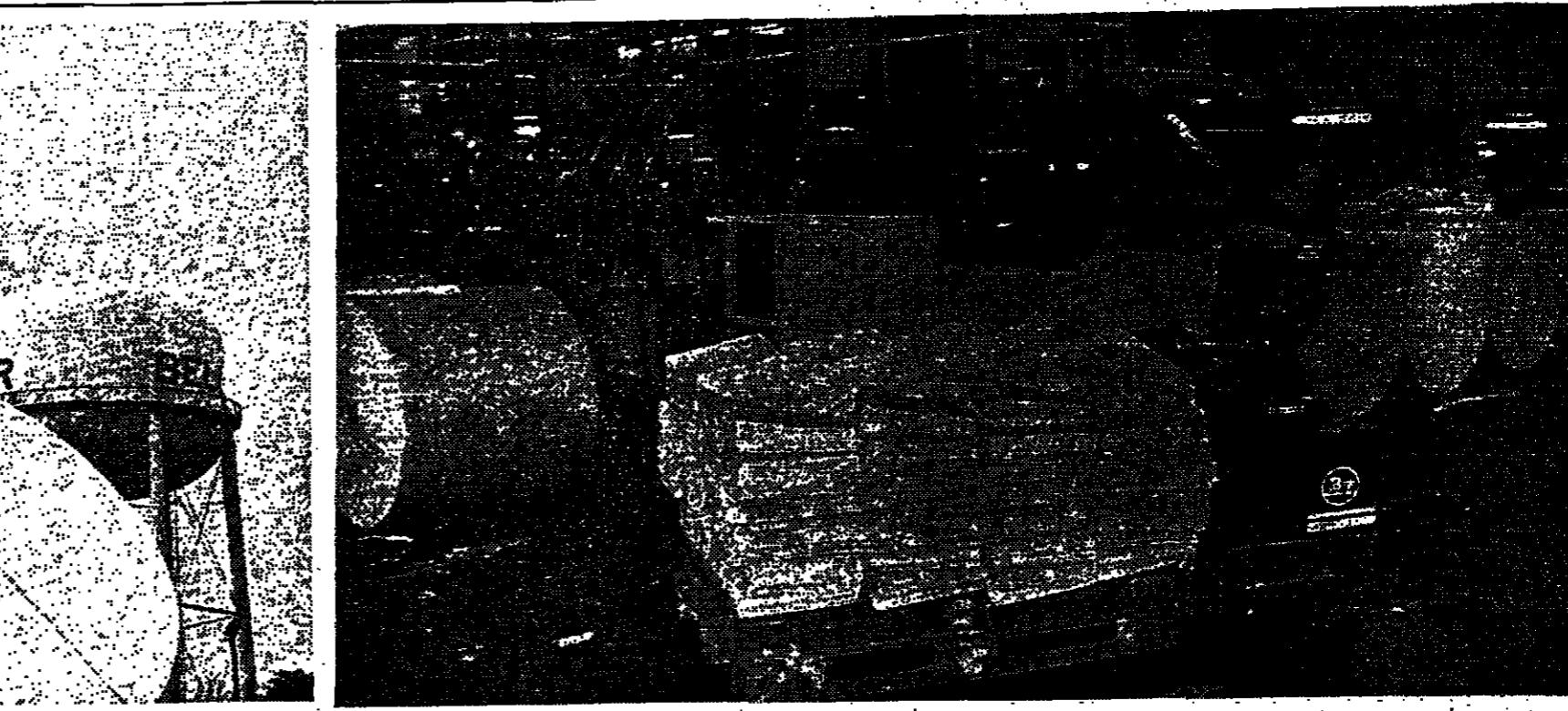
For several years desk-top fax machines, which transmit and receive text, photographs or diagrams over the ordinary telephone network, have provided one of the fastest-growing markets in office equipment.

Their industrial counterparts have also been in demand, particularly in the UK, as newspaper publishers distribute their printing centres around the country.

Manufacturers estimate that the market for fax machines such as these has doubled over the past two years in Britain. In the rest of Europe, however, the uptake has been patchy. This is because of the problems of getting digital transmission lines.

Although sharing a name and a concept, the office desk-top machine and the industrial fax machine have several basic technological differences. That is for two specific reasons: the industrial fax has to transmit a much higher print or picture resolution; and because it has more information to send it has to transmit it more quickly.

A desk-top fax machine uses a thermal print head to read the document, which means the very latest Group IV machines can read and transmit 200 lines by 400 lines of data per inch. An industrial fax machine uses a more sophisticated laser spot to scan across the page and for colour magazines, for example, scans



Della Bradshaw on industrial facsimile

Fax meets need for speed

The information is sent via a French satellite over the Congo.

The available transmission speed for both terrestrial and satellite links varies around the world, depending on the telecommunications operators. In the US the standard transmission rate is 1.544 Megabits of information per second (Mbit/s), and in the UK and many other places around the world it is 2Mbit/s. That means that it takes about three and a half minutes to transmit an ordinary broadsheet page of a newspaper.

To cut the transmission time down even further the fax manufacturers are incorporating compression techniques into their machines, which squeeze the bits of information

down the telephone line. That cuts down the time it takes for the page to be sent from three and a half minutes to about 55 seconds.

But compression can introduce a further problem. As the information is compressed down the telephone line then reformed at the other end there is a higher chance of errors creeping in. That is a particular problem where a fax is being broadcast from one site to a number of other centres. To iron out that problem the manufacturers are building error correction techniques into the machines, which means that chunks of data can be re-sent if an error occurs.

Another concern for the industrial fax manufacturer is that newspapers need the flexibility to send and receive the data in different forms. Like the desk-top fax machine, the industrial fax can send information from a sheet of paper - which in publishing terms means a paste-up of a page - or it can transmit information from a computer disk. The printing house needs to receive the information either on a disk, a printing plate or film.

Although the desk-top fax market is dominated by Japanese companies, manufacture of industrial fax machines is international. Two Japanese manufacturers Matsushita Graphic Communications Systems and Ricoh are players in the industrial fax market, but other participants are the American company Chemco, the German company, Hell (which is an affiliate company of Siemens) and the UK company, Crossfield Electronics, which is part of the De La Rue conglomerate.

The main application for the industrial fax machine is in transmitting pages for printing remotely, either to contract printers or to overseas or geographically distant sites. The Financial Times, for example, sends information for its European edition from London to be printed in Frankfurt, Roubaix near Lille in France and Everett, New Jersey.

Janneryd estimates that only about 20 per cent of the world's newspapers use fax technology for transmitting black-and-white pages. Nevertheless, he believes there is an even bigger market potential in colour fax transmission. For that, the fax machine has to transmit four different plates for every page.

One of the reasons for the enormous growth potential is that it is not just the commercial publishing industry which needs to send colour photographs around the globe.

In the US, though not yet in Europe, companies in the graphics art industry are also taking up colour fax transmission as a way of sending colour photos around the country, which can then be used for advertising or illustrative purposes as well as newspaper or magazine publishing.

THE HIGH street quick-printing industry was born two decades ago from the coming together of two separate technologies.

The first of these, the lithographic method of printing, is now the dominant process in the whole printing industry. With the arrival of all-electronic printing processes it is possible that it will not maintain the dominance it gained during its second century, but it clearly has a good few years left to it.

The other main stay of the quality quick-printing industry has been the silver-based paper printing plate. This photographic technology emerged in the 1960s and was responsible almost single-handedly for the demise of the conventional high street jobbing printers who were then universally using the letterpress printing process.

In the 1960s, the printing

industry generally regarded the advent of these silver-based materials with near total indifference - and, to a certain extent, still do.

It is on these two technologies, then, that quick-printing has developed into a substantial world-wide industry since the first hesitating steps were taken in the UK by independent owners in 1970, to be followed by the first franchised printing chain a year later.

The silver plates were not, in fact, the first paper-based printing plates to be used for printing. They were preceded by electrostatic plates (really a form of photocopy) from which one can take master images) and the direct image-master which, although a printing plate, could perhaps better be regarded as a replacement for the conventional typed duplicator master.

The significance of the silver-based plate was that it

QUICK-PRINTING

Today's jobbing printers

offered an image quality which was then, and still is, significantly superior to that obtainable from an electrostatic plate.

As a result, quick-printers could produce photographs of respectable quality from the same plates as they would use to print type or line drawings. Of course, it had always been possible for small printers to produce photographs on the small presses that we now associate with quick-printing.

But this involved more expensive metal plates which were also more laborious to produce and it was either necessary to go through an intermediate photographic stage to

prepare a film negative (as is still largely done in the mainstream printing industry).

Alternatively, an intermediate chemical process could be used which involved the operators getting their hands dirty and would normally only produce a printing plate the same size as the original being copied.

The beauty of the silver-based material was, and still is, that a camera could produce a press-ready printing plate in one step from customers' artwork. Indeed, the same camera could also be pressed into service for other graphic arts functions.

On the press side, the original equipment was typically very rudimentary and largely confined to A4 images, the only size then being produced by conventional duplicators.

These presses would have relatively poor inking-power (this limits the size of solid image that one could print on a page and the ability to use glossy papers) so that the potential of the silver plate could not be fully utilised.

In the intervening years the rapid growth in quick-printing (there are now perhaps almost 3,000 quick-printers in the UK, of which perhaps 500 are franchised) has meant a very significant market for manufacturers

of equipment and they do not offer the productivity available on highly automated silver-based equipment.

On the plate-making side, quality quick-printers have long considered that only silver plates give sufficient detail for the sort of work they expect to produce for customers, although a significant number have stuck with the improving electrostatic plates

damped by a roller and then inked: the ink, being greasy, simply refuses to adhere to the plate in the previously damped areas. There has, in recent years, been a significant improvement in the method of damping plates on these small presses.

The market for small presses in the quick-print industry is largely dominated by one vendor, the A.R.Dick Company of Chicago, a subsidiary of Britain's GEC and some 50 per cent of the presses that they now ship to high street printers are equipped with a special set of damping rollers which remove the water from the ink roller.

These presses, like almost everything in the quick-printing business, are imported. The UK's major suppliers are now the US, Japan and Germany.

A.R.Dick, like their competitors, supply a range of presses with electronic controls and many highly automated features. Paradoxically, these have not yet found favour with the quick-printing industry, since so much of the work involves short runs so that such automated controls do not come into their own.

Here one can see that it is not only in the size of its equipment that quick-printers differ from their larger commercial brethren - for in the general commercial printing industry the presses are almost unrecognisable from their predecessors of 20 years ago, so numerous are the electronic controls.

On the press, a plate is first

damped by a roller and then inked: the ink, being greasy, simply refuses to adhere to the plate in the previously damped areas. There has, in recent years, been a significant improvement in the method of damping plates on these small presses.

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On the press, a plate is first

"Only purists complain about the quality of typesetting in newspapers."

In order to meet tighter copy deadlines, DTP has come to the fore as a publishing tool rather than as a technology in its own right. Many publishers use DTP as a method of producing quality drafts before transferring the layout data to their phototypesetting system.

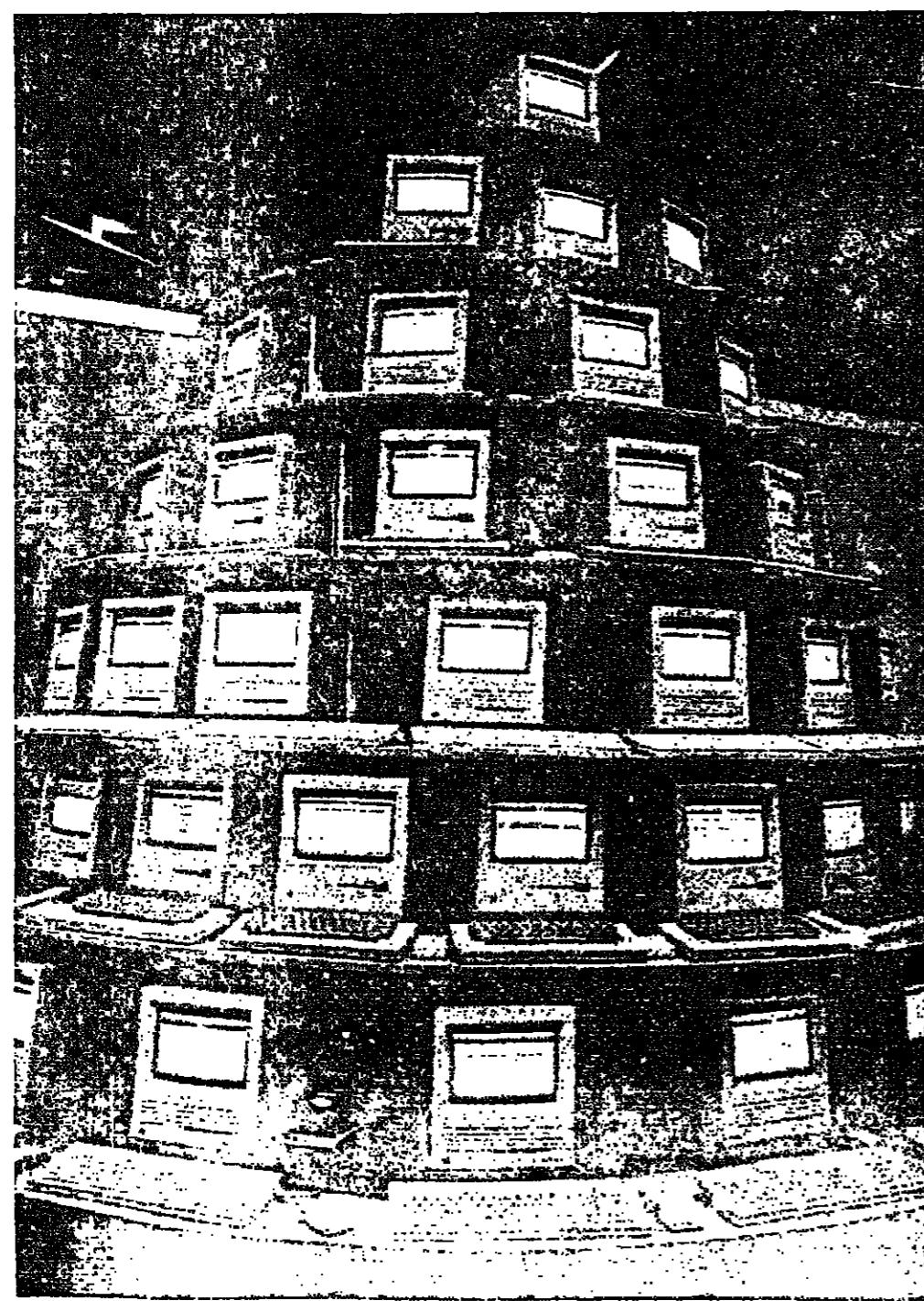
This is becoming more prevalent since the development of PostScript as an international industry standard software application for page description layout. Suitable for either a PC or phototypesetting terminal, pages designed with it can be transferred from one to another by floppy disk.

But one speaker, John Miles a partner in Banks & Miles, the London typographics specialists, did remark on the dangers of allowing the proliferation of high quality DTP - "the availability of graphics could be very seductive. Use should be kept in check or else products resembling a Victorian handbill - with a whole gamut of typefaces on one page - will start appearing."

Clearly both the computer and publishing industries are, only just starting to live with each other. The signs are that the two technologies are starting to integrate.

Printing firms are finally acknowledging the usefulness of DTP, whilst the computer industry's prophecies of doom for typesetting appear to be premature, to say the least.

Philip Marshall



Apples: the rise of the crop

Typesetting v desktop publishing

Death exaggerated

SINCE THE birth of desktop publishing (DTP) in 1985, when Apple introduced a system incorporating their own hardware and Aldus PageMaker software, computer industry pundits have been describing DTP as the replacement for traditional typesetting skills. If the rumours are to be believed, whilst DTP products proliferate, photo-typesetting firms look set for mass liquidation.

There is every indication that the DTP market is expanding rapidly. In the last 3 years, over 200 software companies have entered the DTP field and many large computer manufacturers, such as DEC and Wang, now have their own products. This year the market for DTP products, both hardware and software, is expected to be worth £200m in the UK alone, with forecasts for expansion to £300m by 1990.

In the US, DTP market growth is likely to be even more prodigious. DTP brought \$1m worth of revenue to the computer industry in 1987 and a phenomenal five-fold increase to \$5bn in 1990 is predicted by some industry analysts.

Despite this activity, many UK typesetting companies have never been busier and are openly saying that they have no intention of converting

from their existing systems to DTP. Designers are also critical of DTP, believing that the quality of DTP output is still inadequate for many commercial applications.

Berbers Typesetting in Biggleswade, Bedfordshire, is typical of the many regional typesetters experiencing a renaissance.

Beryl Bateman the managing director of Berbers, a two-person operation using Itek Graphic Digitex equipment, says: "Being a small firm, the conversion costs, both in time and finance, are not worth it.

Photo-typesetting will be around for a substantial time to come as the market appears to be actually growing. With experienced operators, even turnaround times can be as quick as with DTP systems."

The recent boom in publishing, which has seen an ever-growing number of journals on the news stands, is represented, right the way across the industry - although Berbers principal clients are in the public sector, with Bedfordshire Police and Bedfordshire County Council among them.

Business has expanded so rapidly they are now taking on the typesetting for everything from business cards to books.

These two opposing pictures give a very confusing view of

the real future of electronic publishing. Computer industry experts suggest that within three years, manufacturers of composition systems will start being bought out by PC manufacturers. Terminals at the top end of the DTP market such as the AppleMac II and Sun Microsystems Workstation continue to improve and within 18 months 1000 dpi devices (dots per inch, horizontally and vertically) could be available.

However, in the printing and publishing industries there is a growing view that instead of having two technologies competing for the same market, DTP and typesetting are complementary and they address two separate markets. This would at least explain why typesetting firms continue to thrive in the face of the so-called onslaught of DTP products.

Quality considerations is the major topic of discussion between the two protagonists and DTP enthusiasts and advocates of 'orthodox' typographers.

Normal quality from PC-based DTP is 300 dpi whilst standard typesetting machines such as a Linotronic 100 image-maker have resolutions of 1000 dpi. To the trained eye, this is a substantial gap in quality.

Although initial applications for newsletters and in-house publications, DTP uses have expanded with improvements in software and printers to newspapers and books. But many in the publishing industry believe that 300 dpi is barely passable resolution even for these uses.

However, last year's Mono-type conference was a watershed for DTP. Under the banner 'Better Looking Electronic Publishing' it was ironically hosted by a major manufacturer of composition systems. Typographers experts finally accorded DTP a role in future of their industry.

Conrad Taylor, a design consultant, said that many people were quite happy to accept lower standards of reproduction when there were cost constraints. DTP offers a low cost solution to many in-house graphics needs, especially when working with A4 layouts and uncomplex graphics.

Henry Burdett, editor of the specialist journal Desktop Publisher, developed DTP's involvement in mass circulation publications, seeing the debate in terms of practicality versus perfection.

"Good typesetting is mono-polised by the fine art and advertising worlds. For the rest of us, the prime concern is getting the typesetting back to authors as quickly as possible.

"Quite clearly many users are prepared to sacrifice the quality of formal typesetting for faster production and document handling that DTP offers. But as Burdett suggested

PRINTING TECHNOLOGY 7

Financial Times expansion plans

A three-track strategy

THE NEW printing plant in Docklands, which starts operations this month, is likely to have a noticeable impact on the contents of the Financial Times.

"A major advantage of the new production facilities in East India Docks is that the presses will permit us to increase the size of the newspaper," says Frank Barlow, chief executive of the paper.

"This increase, from 46 to 56 pages, will allow the paper to increase its coverage of international, and, in particular, European affairs," he explains.

"It is essential that we dominate Europe," he states. "In the mid-term it will be impossible for the Financial Times to compete against the local news coverage of indigenous papers in the US and Far East. We want to provide those markets primarily with news about Europe."

The most obvious effect of the extra eight pages will be more news from both Europe and the Pacific rim as well as

fuller coverage of world equity and capital markets.

However, Geoffrey Owen, the editor of the newspaper, stresses that any increase in news outside the UK will not have a detrimental effect on coverage in Britain.

"We want to improve both at the same time," says Mr Owen. "We need to exploit the trend in the UK towards a more business orientated environment and recover any fall in sales since the markets crashed in October last year."

Mr Barlow believes that the combination of improved European coverage and better distribution will provide a product which will be difficult to emulate.

The investment in Docklands provides the first part of a three-track strategy planned for the future of the Financial Times. This first track is to support and improve the printing and distribution network of the newspaper.

The FT is now printed in London, Frankfurt and New

York. An extra production facility in Roubaix, northern France, which cost £1.2m, began printing 30,000 copies last month.

Mr Barlow says he is also looking at the possibility of printing the Financial Times in the Far East. He explains that options include a combination of plants in both Tokyo and Hong Kong or Tokyo on its own. The Wall Street Journal's Asian edition has a circulation of 30,000. A further option is a production plant in Chicago.

The second track of the strategy is to invest in indigenous foreign language newspapers. Mr Barlow argues that there will always be a market for local business papers. The plan is to set up joint ventures with local publishers, while also taking an equity stake in the business.

The FT has already invested in two such newspapers, Les Echos in France and the Financial Post in Canada. However, attempts to purchase stakes in other ventures, such as the

Paul Abrahams

FT PLANT**Move to Docklands printing**

THE foundations for the modernisation of the Financial Times were laid in a very traditional setting - in Ye Olde Bell public house in the village of Hurley near Maidenhead.

The secret meetings of senior FT executives held on March 7 and 8 1988 in the pub had been called two weeks before the dramatic move by Mr Rupert Murdoch to Wapping in the January of that year.

By the time the meetings were held it was already clear that Fleet Street and its traditional labour practices would soon be dead and the agenda was clear. It was to produce a comprehensive plan for the future development of the newspaper involving the introduction of the latest computer technology, a move from its present headquarters, Bracken House, and the creation of a modern printing plant in London's Docklands.

But above all else the group of executives was asked to think what had until then been unthinkable in the national

newspaper industry. Forget Fleet Street and all its traditions. Design a project that would be like any other orthodox industrial venture where the best equipment would be chosen for the job and operated with the minimum number of staff the technology required.

Industrial action by the reading room, for example, which led to "dirty" uncorrected copies of the FT going on the streets, would be the thing of the past. There would be no reading room. Journalists would enter their copy directly into computer terminals and would be responsible for its typographical accuracy.

Flexible working agreements would mean that a long-running dispute between electricians and engineers about who should service photocopying machines would equally be a thing of the past.

By July the future was spelled out clearly to staff through documents and a corporate video. It included the call for volunteers for 404 redundancies.

The most obvious change for reader and advertiser will be the improved quality of reproduction of text and pictures, to

Nearly three years of planning on the 270m project comes to fruition this month. Printing of the newspaper ends in the cramped basement of Bracken House and is transferred to the new purpose-built plant, as much effort has been put into the creation of new working practices as into the choice of the technology itself.

It is the largest development in the FT's history, says Mr Frank Barlow, the newspaper's chief executive.

Financial Times management considered the option of going to contract printing or satellite plants in different parts of the country. The decision to build a new Docklands plant was taken because it was believed that no other printer had the precise configuration of pressed the newspaper was looking for. The company also wanted to avoid being at the mercy of another company's industrial relations policies.

The decision to include Ferg inserting equipment in the new plant increases the potential even further. The equipment can insert everything from pre-printed supplements and regional sections, to

brochures, catalogues and company reports, at the same speed as the presses run.

"Although the nine units we will get to eventually will give us 72 pages, if we wanted to we could do an 88-page paper by printing a 16-page section in advance and inserting it. It gives us virtually unlimited paging capacity," added Mr Barlow.

The increased pages, according to Mr Barlow, "will allow us to develop the paper both editorially and in terms of advertising, allowing us to develop new advertising segments such as property, maybe antiques, and classified advertising."

The new plant will be operated by about 200 people, compared with 650 under the old system.

Great efforts have been made by production director Mr Peter Mills to emphasise the break with the past and the old dirty working conditions in Bracken House and the potted

plant environment of East India Docks.

All the remaining members of the production team - the last 130 people leave the company this week - have become skilled staff, there will be only three basic pay rates and considerable efforts will be made to ensure that staff and skills become as interchangeable as possible.

They will operate a considerably simplified production process. Editorial terminals identical to those used by reporters to generate copy sit in the new plant. When an article is released for typesetting it travels by digital stream to a Monotype LaserComp which produces bromides of the article set across the required number of columns. The FT has decided that automatic full

Raymond Snoddy

David Jones on the FT's electronic editing system**Sea of conflicting solutions**

THE INTRODUCTION of a major electronic editing system has thrown the Financial Times, along with most of the British newspaper industry, into a world of rapid technological innovation and mounting incompatibilities.

Although the transformation has been dramatic, the revolution has only partly run its course. Like the other big metropolitan newspapers of the world, the FT now has to make some sense of the computer industry's confusion about operating systems, local area networks, typesetting languages and communication standards.

In terms of technology, the way ahead is uncertain, although one of the FT's major objectives is not - and that is the introduction of cost-effective pagination, referring to the assembling of all the components of a page in a single manipulable electronic form. Planning for this has already started, although the timescale remains in doubt.

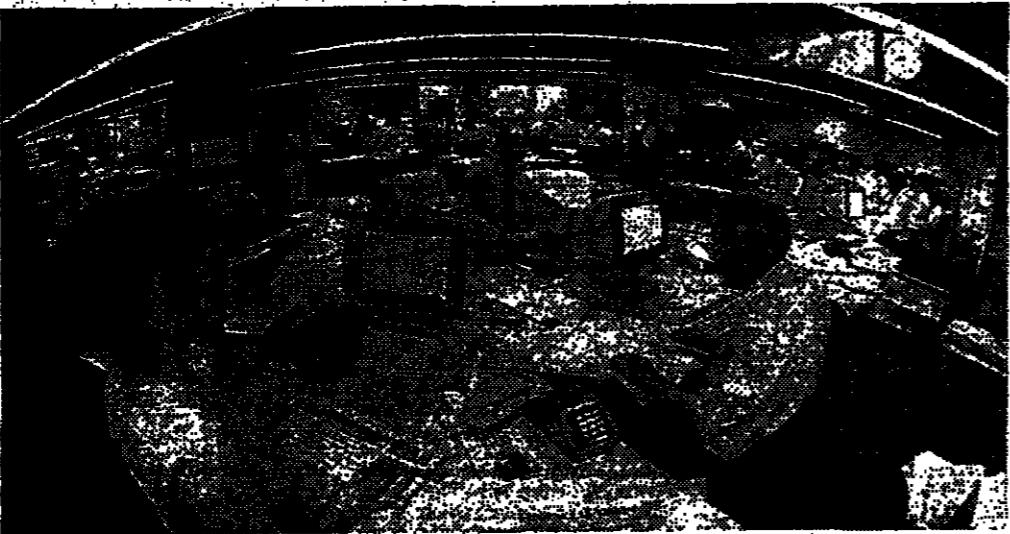
At the same time, the Financial Times will be incorporating the implications of the new so-called 'Fourth Wave' of electronic systems into its existing structure. This will lead to wider deployment of powerful microcomputers running general industry packages intermeshed with the existing newspaper production software.

At the heart of the FT's transformation has been the birth of EDWIN, standing for Editorial Word Processing International Network. This acronym was devised initially as an aid for the introduction of screen-editing but the word has since stuck.

EDWIN is a customised version of a substantial 350-screen newspaper production system supplied by System Integrators (SI) of Sacramento, California. SI's highly flexible software package is designed to run on Tandem fault-tolerant minicomputers used widely in the City, the telecommunications industry and defence.

EDWIN has a substantial degree of distributed intelligence with proprietary high resolution black-on-white CGA screens utilising 2MByte of memory. Data is supplied at the unusually high speed of 32 baud from screen controllers connected to the Tandem TXP minicomputers.

Although not a true Fourth Generation Language database, the software has a range of GGL characteristics enabling many applications to be built by users, rather than by tradi-



David Jones in the FT's newsroom

ditional data-processing staff.

This was important in developing rapidly the typography for the 130-plus special regular tables that appear in the FT - not to mention the commodity prices, world stocks markets and the five pages of unit trusts and UK shares information service which are fed in from a suite of DEC and Compaq computers at the FT's statistics subsidiary, close to London's Tower Bridge.

In addition to enabling reporters and editors to produce the daily newspaper, EDWIN also collects automatically the 20 news services and makes them available for use by various sections of the editorial staff. It also allows FT personnel to interrogate at their screens the latest prices on Reuter Monitor.

One of the system's strengths has been the way in which its design allows for modular growth and flexible remote operation. The FT's printing and publishing departments have moved to London's East India Dock has been accompanied by the introduction of type-setters connected over telecommunications lines.

The newspaper will be electronically created at its central London headquarters, currently at Bracken House, but soon to be Headstone Court at the junction of Southwark Bridge, the physical location of the newspaper is on Monotype LaserCom laser printers at East India Dock. The communication links handled by General DataComm multiplexors are two 2Mbps British Telecom Megastream channels with trunks routing of local ends and similar capacity on

the Mercury network, with microwave links.

The deep divisions within the general computer industry pose many uncertainties for the newspaper's development over the next few years. Powerful newspaper software is appearing in the marketplace in the Unix world and Apple Macintoshes. And round the corner lies the impending arrival of OSZ, IBM's new microcomputer operating system.

All three operating systems are currently mutually exclusive beyond anything more complicated than basic file transfer. So, one of the major tasks facing the FT will be to design an approach which can use the best features of each while at the same time enabling it to attain the tight degree of integration needed between different departments.

Staff in the editorial, advertising, graphics, production, and other departments, which historically have not really been required to do more than co-operate with each other, will increasingly need to work more closely together if the objective of creating a complete electronic counterpart of the finished page is to be achieved.

A key role in developing this integration is likely to be local area network technology enabling one department's computers to communicate interactively with another's. But again the industry is a sea of conflicting solutions, divided between IBM's Token Ring technology, Apple's AppleTalk, now linked with DEC's Decnet, and the world of Ethernet, itself, available in myriad

incompatible flavours. And if that were not enough, each of the network solutions only works on certain computers so that newspapers, in deciding on a particular computer or package, may also unwittingly be choosing its network solution.

The FT, as a John

ny-computerized editing competitor with its US counterparts, has arrived just at the moment when elsewhere in the world and especially across the Atlantic the newspaper industry's traditional reliance on software and hardware packages is beginning to break up.

Until recently system suppliers managed to shield newspapers from the worst excesses of the computer industry's inability to create and adhere to effective standards.

But the suppliers' failure to

embrace enthusiastically the

'Fourth Wave' technology,

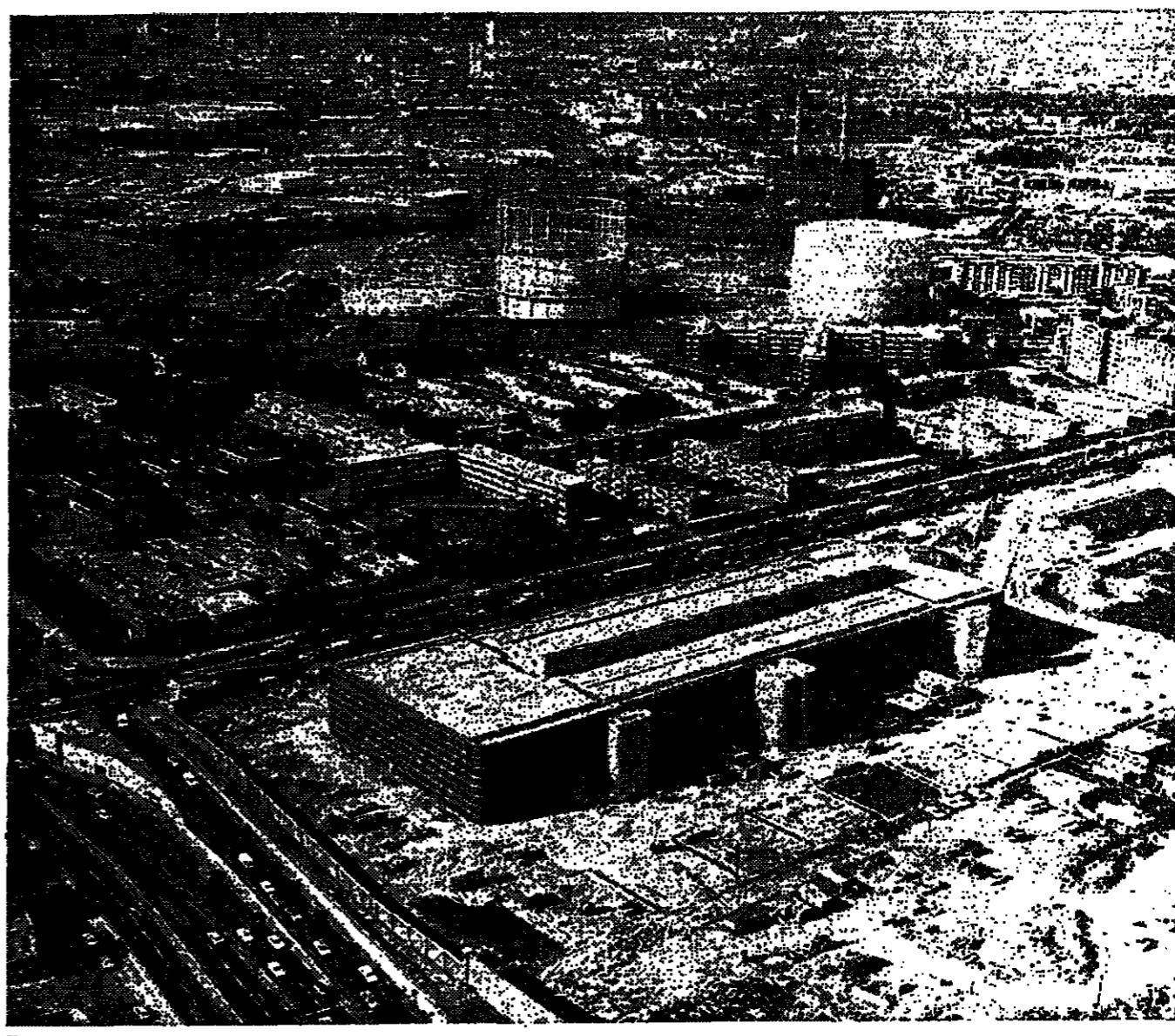
typified by the attractions of the desktop publishing explosion,

combined with their inability to find an answer to pagination

that is technically and financially satisfactory, has encouraged newspapers to lift the veil and address directly what is happening in the computer industry at large.

It will be several years before newspapers once again have a stable technological base on which to plan their development - and the jury

remains out as to the respective long-term roles in the metropolitan newspaper industry for IBM, Apple and Unix.



The design of the new Financial Times Docklands building ensures that passers-by can see the paper rolling off the presses

"We don't envisage carrying colour pictures of Mrs Thatcher on page three," Mr Barlow said.

The £70m investment in the new project includes the cost of the "front end" editorial computer system bought from System Integrators of California, the new printing plant and the cost of the more than 400 voluntary redundancies involved in the move to new technology.

The increased pages, according to Mr Barlow, "will allow us to develop the paper both editorially and in terms of advertising, allowing us to develop new advertising segments such as property, maybe antiques, and classified advertising."

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PRINTING TECHNOLOGY 8

Laura Raun on the Netherlands printing industry

Hoping to carve out a European niche

MOST PEOPLE think the German Johann Gutenberg invented movable type. But the Dutch claim that Laurens Janszoon Coster, a Haarlem printer, discovered interchangeable letters first and was robbed of the credit by Gutenberg.

Today the Dutch still claim to be a leader in European printing, thanks to five centuries of advanced technology, political tolerance, sophisticated publishing and graphics industries and an international outlook. It is hoped that a talent for foreign languages and convenient geographical location will catapult the Netherlands into a major printing centre in the single European market.

The Dutch printing industry is far from being the biggest in Europe, with annual turnover of £5 billion. But it is the best, insists Mr Martin Handgraaf, chairman of the Royal Association of Graphic Companies, the leading organisation representing the printing industry.

"I'm sure productivity in the Netherlands is a lot higher than Germany or Switzerland," he says confidently. "Because of the more expensive labour factor, we put more investment in machinery and that raises productivity."

Coster's discovery around 1423 soon gave rise to posters, pamphlets and books, fuelled by relatively high literacy and wealth. By the golden 17th century the Netherlands was the most important book publishing centre in Europe, with

many of the works destined for abroad.

Political tracts and philosophical essays that were considered heretical elsewhere were freely printed in the tolerant Netherlands. England's John Locke, France's Descartes and Portugal's Spinoza all found political refuge among the open-minded Dutch.

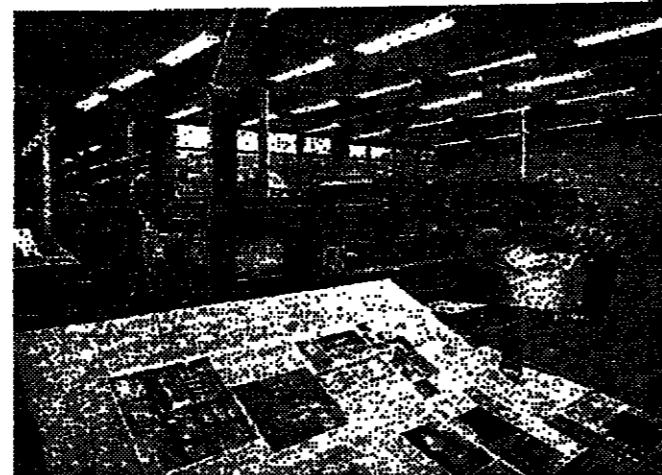
Some publishing companies that began in the 16th century still survive today. Elsevier, the second largest publisher, traces its roots back to 1576, while a later crop of publishers was established in the 19th century.

Early this century the graphic design industry blossomed around the "De Stijl" school of artists, including Mondrian. Graphic designers in the Hague, like their counterparts in Paris and Berlin, infused typography with new importance.

Today typography and graphic design are more integrated into Dutch society than in most countries, with notable attention paid to printed matter and transport vehicles' graphics.

A small but successful paper industry has clearly helped. KNP Royal Dutch Paper Mills and Buehmann-Tetendorf are both known for high quality paper and paper products.

Other challenges have come from the Netherlands' high



Colour printing plant in Eindhoven



Mr. Martin Handgraaf: confident about productivity

wages and short working hours. Workers' pay is among the highest in Europe — about £126,000 a year for a photocopier operator.

The printing industry was the first to move to a shorter, 36-hour work week several years ago, under heavy pressure from the labour unions. But now that other industries have followed suit and few new jobs have been created the pendulum is starting to swing

back toward the 38-hour week. Mr Handgraaf, like his counterparts in other industries, is lobbying the centre-right government to cut the steep tax and welfare premiums that keep wages high. But meanwhile he sees to emphasise the industry's comparative strength.

An obvious one is high technology. Offset printing accounts for nearly 70 per cent

of Dutch printing capacity, followed by Letterpress with 17.5 per cent, Rotogravure with 12 per cent and other techniques making up the rest. About two-thirds of all Dutch newspapers are printed offset.

One newspaper is experimenting with flexography, a technique using plastic mounts that is normally used to produce higher quality print on cardboard. Even in a country as small as the Netherlands

the NRC Handelsblad newspaper beams its copy via satellite to two other printing plants.

Modern equipment is fueling the growth in market segmentation — smaller print runs for specialised purposes. Sponsored magazines, for example, are burgeoning.

Desktop publishing is the key to the future in most people's eyes, and the Dutch intend to stay ahead of the game. Computerised input and telecommunications links are particularly important in the expansion of international printing.

Exports account for only about 17 per cent of the industry's total output but they are a promising sector. Satellite link-ups allow foreign publications to transmit their pages directly to the Netherlands, print them and distribute quickly to the rest of Europe.

An efficient transportation network leads to the hinterland — combining road, rail, water and air with modern logistics. Limburg, the country's most southern province, is strategically placed for distribution to the more densely populated parts of western Europe. These advantages have enabled the Dutch printing industry to win contracts to print the *Economist*, the

established a strong presence in the United States.

The second largest group, Jean Didier — the scene of an ugly strike and lockout over workers' redundancies — is aiming to become Europe's leading printer of periodicals and catalogues. It is building a new plant south-east of Paris, where it will install six 3.6 meter rotogravure presses, and 24 web offset machines bought from Komori of Japan.

The multinational concern Moore Paragon has become the third largest group in the industry by developing high-value-added products, according to the French Federation of Printing.

One key sector where France lags behind is in the manufacture of printing equipment. The handful of companies operating in this sector includes

one maker of web-offset machines — Harris-Martin, the French subsidiary of the US firm Harris Graphics that was recently acquired by the West German printing giant, Heidelberg Druckmaschinen.

One of the other French machine manufacturers, Seailles et Tison, specialises in form-printing equipment.

Chambon, which holds a substantial share of the world market in sugar box printing equipment, is for sale after filing for bankruptcy. Most of the machines in service in France were supplied by West Germany, with Britain, Switzerland and Italy some way behind. Japanese suppliers are making steady progress since they entered the French market in the early 1980s.

Barbara Cassares

Paris

THE FRENCH printing industry is on its way to meeting the competitive challenge of the single European market in 1992. Companies which had fallen behind in the technology race, have caught up in the last few years by importing some of the most sophisticated printing equipment available.

In 1987, the industry invested about FF 3.5bn (£583m), representing 9 per cent of turnover, according to the French Federation of Printing and Graphic Industries.

Newspapers in France are among the best-equipped in the world, and will be operating entirely on web offset by the end of the year when *Le Monde* replaces its old presses.

The country comes second only to West Germany in continental Europe in image-processing, with 130 electronic image processors (EIPs) com-

pared to West Germany's 165; and 720 scanners against West Germany's 1,100.

France is notable for its early abandonment of letterpress printing systems in favour of lithography. The State no longer hails out printing concerns in difficulty, much to the delight of the more successful sectors of the industry, according to at least one source. Government subsidies pulled down prices artificially distorting the economics of printing and perpetuating inefficiencies, say some.

Another positive development for some observers is that integrated printing operations in France have started to decline among small sector firms, although not among large ones.

The trend toward integration has been a source of controversy for many years in

France, and was strongly criticised by the former Culture Minister, Jean-Philippe Leleau in his White Paper for the printing industry in March last year: "Top quality cannot always be achieved by an integrated printing operation, regardless of the standard of equipment," he said.

The State has become aware that its role is not that of a printer, but government departments have a genius for surreptitiously developing their markets and exceptions to the rule," he declared.

Despite former predictions of a gloomy future for the print and paper industries, the printing industry's production rose by 4 per cent a year between 1980 and 1985, and by 7.5 per cent a year in 1986 and 1987.

Competition has driven prices down, but new services in printing with high value-added content have generated an annual 4.5 per cent increase in turnover at constant prices in 1986 and 1987 to total an estimated FF 40.4bn. Even so, France remains a net importer of print.

In his White Paper, Mr Lecat pointed out that France has the third largest printing industry in Europe, but is the world's leading importer of print. Efforts to redress the balance should be directed first at mail-order catalogues and periodicals before tackling books progressively, he said.

Printing companies are reacting differently to the challenges ahead. The Hachette group — number one in France since it acquired Daniel — is basing its strategy on worldwide expansion and recently

THE FUTURE of the small printing press is a favourite talking point among printing press manufacturers. Industry pundits have long predicted that the rise of advanced photocopies and the laser printer must inevitably affect sales of small presses.

In time, they say, the small press will all but disappear. This is not an argument which cuts much ice with the small press manufacturers. They report that the highly competitive market for small presses, estimated to be in the region of 3,000 machines a year in the UK alone, continues to grow at about five per cent.

If you want good registration and good quality, then don't use a photocopier," is a rallying cry of small press manufacturers. They can also demonstrate that once a run gets above a 50 to 100 copies, the price per copy may be cheaper using a press.

When it comes to colour photocopying, the poor quality of the current machines tilts the argument further in favour of small presses. Laser printers and desktop publishing have their place, they say, but they do not threaten the traditional offset presses.

Sales staff of the West German manufacturing giant, Heidelberg Druckmaschinen — widely known as Heidelberg — the world's largest maker of machinery for the industry, recently enlarged a laser-printed letter 30 times just to highlight the problems of quality.

Problems at Rotaprint, the UK's best-known name in small presses, appear to have undermined the argument that the small press market is proving difficult, however. Rotaprint went into receivership in April and was bought up by venture capitalists Alan Patrioff Associates.

The health of the market is also demonstrated by the number of suppliers who are now competing for a share of machine, accessory and supplies and maintenance sales.

Between 15 and 20 manufacturers now have a direct or indirect representation in the

in-plant printer for the first time three years ago — and with it they are having to offer their first-ever maintenance contracts.

AM Multigraphics, a large US supplier whose A4 1250 press is a historical leader in the in-plant market, is now targeting the commercial printer with new models. Rotaprint, having contracted out most of its manufacturing is able to buy-in a wider range of machines and hence attack a larger market.

The market for low-cost in-

plant printers is under the most pressure from new technologies, since companies which have their own operations are most likely to opt for photocopies. Dave La Sage, sales director of AM Multigraphics, says that sales in the in-plant market have been

fairly flat.

Although some sites are re-equipping, there are few new sites being set up. The difficulties of approaching a new market for the first time have impeded Heidelberg, which is dominant in the commercial printer market. Mr Dennis Durban, sales director at Heidelberg Graphic Equipment in the UK, acknowledges that some of its rivals in this market may be more organised and use such as offering total maintenance and supply contracts.

"We're at a crossroads. We've got to make some decisions about this," he says. Mr Durban, estimates that there could be as many as 8,000 in-plant printers in the UK, although Heidelberg only knows about 3,000 of them.

Marketing to the UK's 1,000

small printing presses are having to fight off competition

Presses under pressure

Jeffrey Wilkinson, chairman and chief executive of the new company, Rotaprint Industries, said, however, that Rotaprint was suffering from uneconomic and obsolete manufacturing, not poor sales — "sales were always buoyant. They couldn't manufacture machines fast enough." Turnover is increasing and he expects the company to break even this year.

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The process allows news-

papers and magazines to be

printed as close as possible to

consumers, limiting the need

for a considerable amount of

relatively costly and time-con-

suming train, truck and air

transportation.

The economies to be gained

from remote printing, once an

initial base has been estab-

lished, have led to a proliferation

of remote printing sites in

North America, Europe and

Asia during the past decade.

Companies moving into Asia

have found that the distances

between major cities justifies

the establishment of more than

100 remote printing sites in

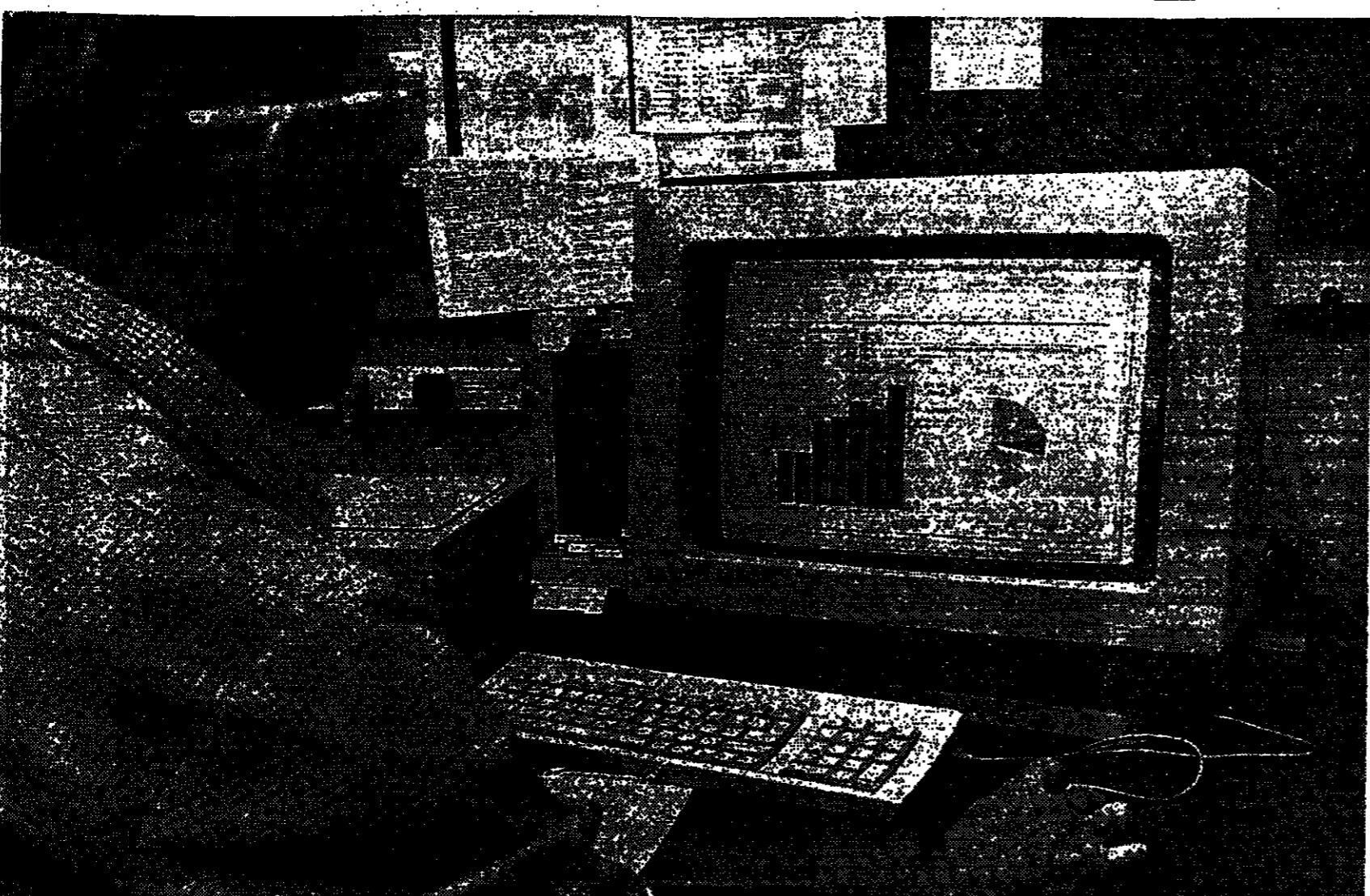
Europe and Asia.

The IHT and FT, the

Wall Street Journal has taken

the decision to print three dis-</

PRINTING TECHNOLOGY 9



Desktop publishing systems are used extensively for graphics in national newspapers

Philip Manchester on innovations in computer hardware

Predictions of explosive growth

INNOVATIONS in computer hardware have played a leading role in the growth of computer-based publishing. The combination of powerful microprocessors, high-resolution graphic screens and laser printers has made it possible to perform sub-editing and page make-up on small, inexpensive personal computers such as the Apple Macintosh and the IBM PC.

The result is that the preparation of virtually any print form can now be performed electronically on relatively inexpensive equipment. Richard Bradley, desktop publishing manager at Apple UK, notes: "Desktop publishing has changed since the early days. Now a whole slew of material can be produced at the fundamental cost of a full colour magazine can be prepared with the system."

Mr Bradley adds that recent figures from the research group, Datquest, show explosive growth in the sector between now and 1991. Datquest estimates that only 2.5 per cent of time used on personal computers is spent currently on desktop publishing. By 1991 this figure is expected to be about 22 per cent.

Boston Consulting, another researcher, estimates the total potential world market value for desktop publishing hardware and software to be \$1.6bn.

The impact of the technology has already been felt in some areas, according to Mr Bradley - "the systems are used extensively for graphics in national newspapers, including The Independent, The Guardian and The Financial Times," he points out.

Despite this, few publishers

have taken on the concept of complete newspaper or magazine production so far. UK publisher Eddie Shah is setting up a new national newspaper, which will be run entirely with a network of personal computers. And there are similar examples in the US. But the technology has limitations and these stand in the way of more general acceptance.

While the manipulation of text and typesetting are areas where substantial progress has been made, the facilities available for colour separation and half-tone processing are still in the early stages of development. And desktop publishing has also been expanded, often with justification, to encompass other areas of the media. Professional layout firms and printers, present at the fundamental milestones made by novices and condemn the technology.

But this is likely to change. System suppliers see two separate markets emerging. Hugh Chappell, sales and marketing director at Taxan UK, is keen to differentiate between the hardware and turned it into marketable systems.

"I see a distinction between the two. Most of us have some sort of personal publishing needs - we all create forms and documents. We used to go to the typewriter, now we go to a desktop publishing package on a personal computer," he says.

"But to produce high quality still requires a certain flair. I think a new sort of skill will emerge which combines knowledge of personal computers with the approach of the professional printer and layout artist," he suggests.

SOFTWARE

New breed of designers

MR PAUL BRAINERD, the president of Aldus, is generally acknowledged as the person who coined the phrase "desktop publishing". He is also the head of one of the fastest-growing software companies in the world. Since 1985, when Aldus first launched its best-selling desktop publishing package Pagemaker, it has grown to become a \$40m company in 1987. This represented a 250 per cent revenue growth on the previous year. Profits grew by 220 per cent in the same period to \$7.5m in 1987.

Pagemaker is the market leader in the desktop publishing software market and has sold in excess of 100,000 copies worldwide, giving Aldus about half of the total market.

This spectacular growth story highlights the importance of desktop publishing to the software industry. It is not an isolated story. Alongside Aldus, a number of other US software companies in the desktop publishing market have also shown great growth potential.

Adobe, a California-based spin-off from the legendary Xerox Palo Alto Research Center (PARC), pushed its revenues to just under \$40 million last year based solely on royalty arrangements for its Postscript page-description language. Adobe has royalty agreements with most of the major computer and printer

manufacturers including IBM, DEC, Apple, NEC, Fujitsu and Wang.

Postscript was developed by Chuck Geschke and John Warnock, the two founders of Adobe.

They worked for Xerox in the same academic hot house at Xerox Park which created the Star interface popularised on "Apple's" Macintosh. The Macintosh was crucial to the development of Pagemaker and indirectly, to the development of the desktop publishing software market as a whole.

The application first appeared on the Macintosh and was only subsequently "taken" to the more popular IBM-compatible personal computer.

The mouse pointer and windows interface built into the Macintosh is an ideal medium for many of the operations required in desktop publishing. It allows the user to pick up and move text and graphics items in a natural and easy manner merely by "pointing and clicking". At the same time, the high resolution of the Macintosh screen and Apple's combination of laser-printing technology, made it possible to produce high quality results at a fraction of the usual cost.

Apple put its full weight behind the desktop publishing market at a time when its Macintosh was struggling to survive against the onslaught of IBM and the personal com-

puter "clone-builders" from Japan, Taiwan and Korea. The strategy worked and Apple, along with its third-party software suppliers like Adobe and Aldus created a new software market which was a natural successor to word-processing, spreadsheets and databases.

Other companies to have benefited from the rise of desktop publishing include Xerox, which bought the rights to Ventura, an IBM personal computer package for desktop publishing, and is Pagemaker's closest rival. Desktop publishing has influenced other areas of software too. New wordprocessing packages such as Livescribe's Total Word offer many features which appeared first in software like Pagemaker and Xerox's Ventura.

And the need for good graphics and photographic images has stimulated a support market to publishing in the form of advanced image-processing software. Aldus, for example, launched Freehand earlier this year and Adobe released the second version of its Illustrator package in July. Both packages provide features for scanning and manipulating images on a computer display screen for later incorporation into publications. Alongside the growth of desktop publishing for personal use, suppliers have been keen to extend their appeal into the print trade and, in the last year, have re-directed their

marketing thrust.

Maria Craig, marketing manager of Aldus UK, says that the emphasis has shifted to professional training. "We recognise the existence of the printer and want to be able to promote high standards. We want to educate the user in good design and educate the print trade that it is not a threat, but an opportunity," she says.

Aldus includes a primer on publication design in its Pagemaker package and recently released a special training version of the package called Pagemaker College. It hopes to create a new breed of graphics designers and print production people who understand computer-based publishing and can exploit it to the full.

Apple itself has also supported the cause of good design in desktop publishing and Apple UK is working with the Royal College of Art on training material.

Desktop publishing software obviously has some way to go before it can overcome the established, traditional methods of the design studio and typesetters. But with increasingly advanced hardware becoming available at low cost, it is only a matter of time before the entire production desk is displayed on a screen and the scalpel and gum take their place in the museum.

Philip Manchester

JAPAN

Script is mastered

JAPANESE PRINTERS are in buoyant mood these days - and for good reason. Recent technological advances have, over a short period, swept away many of the technical barriers which have traditionally made processing of the complex Japanese script time consuming.

In addition, the industry has found itself well placed to capitalise on new markets which have emerged with the arrival of digital technologies, notably the compact disk and video printing techniques.

Social trends have also benefitted the industry. The Japanese appetite for books, magazines and newspapers continues to grow, producing world-record circulation figures. And older Japanese, who owing to lack of a tradition of typewriter/keyboard use, have long since moved away from "on-line automation" equipment in any shape or form, are now gradually coming to accept the VDT screen as an essential tool of photofabrication techniques, an offshoot of photo-compositing in printing.

This new operating environment has prompted major changes in business strategy among leading Japanese printing firms. They are rapidly supplementing their conventional printing contracts with many new forms of business, and aim towards a more diversified industry.

Japan's largest printing company, Dai Nippon Printing Co., is one of the pace-setters in these changes. Manager of Dai Nippon's R&D promotion department, Takashi Toida, says that at his company they are "striving to see just how far we can expand, based on printing technology, and aiming to become a comprehensive information processing industry."

The scale of the breakthrough in the streamlining of printing processes, facilitated by computerisation, can be appreciated when one realises that upwards of 56,000 different types of characters, involving the three syllabaries of the Japanese language, must be handled by printers in their everyday work.

Apple launched its optical disk reader, based on the standardised CD-ROM technology originally developed for audio use. These developments will eventually make it difficult for the professional printing industry to ignore computer-based publishing based on personal computer workstations attached to a network.

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PRINTING TECHNOLOGY 11

Raymond Snoddy looks at newspaper presses

New Fleet Street gears up

THIS WEEK the first Daily Mail readers will receive copies of the newspaper produced on Associated Newspapers' new 220m plant at Harmsworth Quays at Rotherham.

Like other national newspapers which have invested in new printing plants in London's Docklands or elsewhere, the clarity of printing should be greatly enhanced complete with run-of-press colour.

Publishers and printers will, however, be casting a very keen eye on the new, more colourful Daily Mail because it is being produced by the flexographic presses of Koenig & Bauer, according to Associated, the first flexographic presses in the UK.

Supporters of flexography, an enhanced form of letterpress, claim it can produce a high consistent standard of colour matching anything web offset can produce in anything less than optimum conditions.

But the unique selling point of the process, which has helped its introduction on presses in both the US and Italy, is that only flexo can use water-based inks, which dry virtually the moment they hit the page. Unlike oil-based inks, they do not smudge or come off on the hands.

The greatest concern on behalf of the new Associated plant means that all copies of the Daily Mail, Mail on Sunday and Evening Standard will be printed on eight Koenig & Bauer presses by next spring.

The presses can turn out copies at the rate of 70,000 an hour of much larger papers. The maximum size of the Daily Mail rises from 48 to 64 pages, and Evening Standards of up

to 80 pages and Mail on Sunday of 96 pages can be produced.

The coming on stream of Harmsworth Quays is one of the final instalments in the film transformation of Fleet Street. It is a transformation that has included the move to the latest technology with running levels to match and an economy that has led to a partial recreation of Fleet Street, at least in printing terms, in the London Docklands.

There, within an area of a couple of miles, you can find examples of the three printing processes chosen by British national newspapers: web offset, flexographic and anilox web offset.

The Daily Telegraph chose, as did the Financial Times, Rockwell-Goss' web offset presses.

Nearby on the Isle of Dogs The Guardian is using anilox presses from Koenig & Bauer, chosen to avoid too drastic a break with their letterpress traditions of Fleet Street and because it is a system that cuts paper waste to a minimum.

Over the past couple of years all Britain's national newspapers have been in the market to buy the latest printing presses to sign contracts to print on something like modern presses.

Apart from Koenig & Bauer, the names on most people's shopping list have included Rockwell-Goss, the UK subsidiary of the US multinational MAN Roland of West Germany and Wiss of Switzerland.

Mr Jack Ferguson, deputy managing director of Mirror Group Newspapers was responsible for the re-equipment programme at the Daily Mirror. "The essential thing was to have constant reliable high quality reproduction," said Mr Ferguson, who in the end chose MAN Roland (as has Mr Rupert Murdoch's News International) and the colour editions of the Daily Mirror are already coming off some of the 21 new presses bought in an order worth £70m.

Other important factors Mr Ferguson was looking for included speed, integrated four-colour units to ensure good quality colour register, the amount of space taken up by the press and folders that will stand up well to high-speed printing.

Rockwell says it is already prepared to provide presses to print newspapers where every page is printed in full colour if that is what the market wants as the gulf between newspapers and magazine print quality continues to narrow.

Other possibilities for the future of newspaper presses include the use of resin-based inks on offset presses, at present rather expensive, to reduce the smudging factor and an anilox version of the web offset press further to reduce start-up paper.

Perhaps most dramatic of all, direct digital imaging of plate cylinders is under investigation. This could eliminate printing plates and make edition changes faster and less costly.

The combination of the continuing pace of change, and the increasingly competitive environment in which newspapers operate, mean that the days are over when newspaper presses were not only built to last a lifetime but did.

According to industry research in 1970 a total of 7bn inserts were distributed by US newspapers. By 1987 the number is believed to have grown to 74bn pieces bringing in revenue of around \$6bn for newspapers.

In the US, the market is dominated by newspaper inserters made by Harris Graphics which operate on the "carousel" principle.

A single machine which would be coupled in-line with the newspaper press is capable of inserting more than 20 pieces into the newspaper jacket at a rate of 20,000 copies an hour or 10 pieces at 40,000 an hour.

"Inserting has become a very high revenue earner in the US

such systems also allowed, "a total production run to be automatically managed across several presses, as they located in the same plant or not."

All the four main components of newspaper printing presses - reelsstands which unwind the reels of paper, printing units, folders and press control systems - had evolved to give both higher and more consistent product quality and greater flexibility.

The push towards higher print quality combined with greater flexibility in use are clearly going to continue.

Rockwell says it is already prepared to provide presses to print newspapers where every page is printed in full colour if that is what the market wants as the gulf between newspapers and magazine print quality continues to narrow.

The MGN titles, the Daily Mirror, Sunday Mirror and People will be the first national newspapers to offer an inserting service, but they will be followed by The Financial Times and Mr Rupert Murdoch's News International Newspapers, which publish five national newspapers ranging from The Times and Sunday Times to Today and The Sun and News of the World.

Mr Frank Barlow, chief executive of the Financial Times, says the paper plans to use inserts sparingly - perhaps once a day.

Ferag has already sold 24 inserting lines into the British market, including two systems in operation at the Surrey Advertiser and the Glasgow Herald.

The UK is, however, a long way behind the US where inserting is a mature and very lucrative market.

According to industry research in 1970 a total of 7bn inserts were distributed by US newspapers. By 1987 the number is believed to have grown to 74bn pieces bringing in revenue of around \$6bn for newspapers.

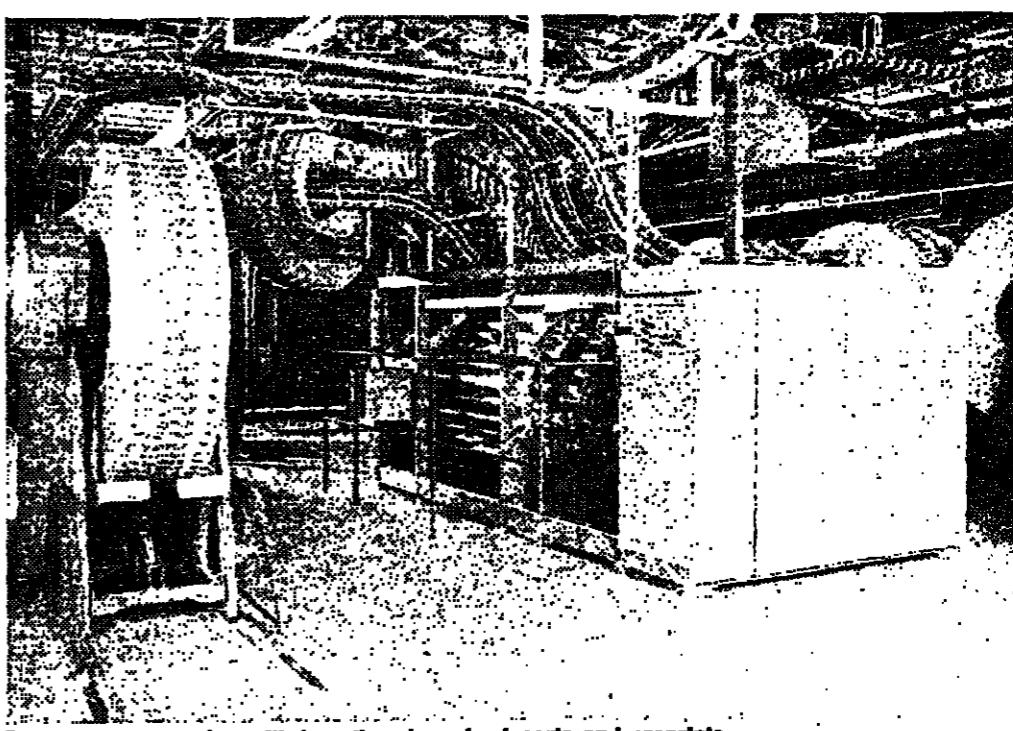
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"Inserting has become a very high revenue earner in the US

INSERTING

A leaf from the US book



Post-press processing with inserting drum for inserts and prints

- in fact most daily newspapers have come to depend on the revenues earned from inserts," said Mr Martin Richardson, managing director of Harris Graphics in the UK.

"We believe that this has now been recognised in Europe, and that over the next 10 years there will be an expansion in the volume of inserts in daily newspaper," Mr Richardson added.

It is a view shared by Mr Jack Ferguson, deputy managing director of MGN who listed the benefits of inserting earlier this year at a Financial Times conference on the newspaper industry.

Apart from the ability to insert brochures, leaflets and catalogues Mr Ferguson emphasised the significant savings on investment in presses.

By producing pre-printed sections of the newspaper which are then inserted, as much as 22m could be saved on a 64-page tabloid press.

The pre-printing, which can also involve extra colour pages or special regional supplements, can be done in press down-time increasing efficiency and cutting the length of the pay-back of the investment.

The market for inserting equipment is also starting to grow in other European countries such as Italy, France and Spain.

In the UK, Mr Ken Mansfield is media director of the WWAV group, an advertising agency

specialising in direct mail. Mr Mansfield already has clients who want to use newspaper inserting as a medium as soon as it becomes available in national newspaper in Britain.

Last year WWAV, a specialist agency with 60 per cent of its business in direct mail, sent out more than 100m items on behalf of clients.

Mr Mansfield does not believe that newspaper inserting will necessarily be a substitute for direct mail but will offer an additional choice to advertisers.

Mr Harold Lind, the media consultant, believes inserting of advertisements may be most effective in free newspapers, where a wider coverage can be guaranteed, than paid-for titles.

If there are too many inserts, then he believes "there is a strong possibility that the reader will shake the paper over the wastepaper basket before opening it".

Although the American pattern, where virtually all newspapers are local rather than national, may not necessarily be reproduced in Europe, a growing inserting market is likely.

Raymond Snoddy

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PRE-PRESS
The Daily Telegraph chose, as did the Financial Times, Rockwell-Goss web offset presses. Pictured above is the exterior of the new Docklands plant and the Telegraph's presses.

PRE-PRESS

The double revolution

THE MOST fundamental stage of printing - pre-press - has been, until recently, "the forgotten area of the industry," says John Clegg, managing director of Wace, one of the two leading pre-press companies in the UK. "For years nobody even knew what pre-press was," he adds.

That ignorance is now changing as analysts realise

the importance of the sector.

They estimate that the UK

pre-press industry, which prepares text and photographs for publication, is now worth

between £200m and £1bn.

"Pre-press is one of the most dynamic areas in the printing sector," says David Foster, media analyst at the London-based securities house, Kleinwort Benson. "What's more, the shape of the market is also changing rapidly."

Foster explains that the industry is undergoing what

he sees as a double revolution. New digital technology, which allows photographs and page layout to be altered by computer. A single unit, consisting of colour scanner, two small page

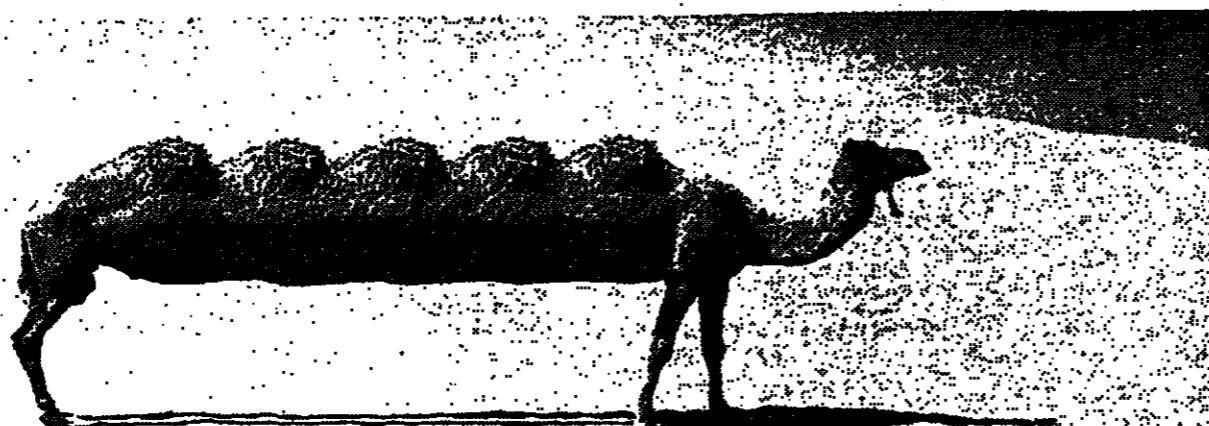
116 per cent.

Continued on page 12

PRINTING TECHNOLOGY 12



Seeing things: Image manipulation by Wace for, above, Honeywell Bull. Below, DHL's message was that it had an unfair advantage



Paul Abrahams profiles Wace

New digital technology the key

JOHN CLEGG, the joint managing director of Wace, a leader among pre-press companies in the UK, smiles as he describes a recent article in a US magazine announcing that his company was preparing for global domination.

"The article was judicious," he says. "Wace has only a small proportion of the UK market, and hardly has presence in the US. We are capitalised at £37m."

Nevertheless, despite media hyperbole, analysts have been impressed by the rate of the company's growth. From being a shell in 1963, Wace is now the one of the fastest growing companies in an already rapidly expanding sector. Its clients include 17 of the top 20 advertising agencies; the other three agencies invested in its main competitor, Parkway.

Clegg, whose background is in law and in merchant banking, insists that the key to Wace's growth has been its willingness to embrace new digital technology.

He explains that the small traditional companies which have, until recently, characterised the pre-press industry have had neither the capital nor the inclination to invest in admittedly expensive equipment.

"The last five years have seen a quiet revolution in the press industry," says Clegg. "But only the larger companies with capital to invest have been able to take advantage of it."

Wace has developed a strong relationship with the suppliers of the new digital technology. In particular, the company uses equipment supplied by the British company, Crosfield's Electronics, and the

Israeli-based, Scitex.

These companies also use Wace as a site for beta tests, before the machines are made commercially available. Clegg says that on occasions he has had new technology six months before other companies.

This allows them to gain the trust of the customers because they work faster and make fewer mistakes.

However, he also stresses the fact that digital communications within the group provides flexibility to cope with excess demand in one locality by transferring without difficulty to other areas, where business may be less brisk.

"We have managed to overcome the cyclical nature of the business," says Clegg. "Many companies have done too wide a range of business and master of none. We have the luxury of targeting and specialisation."

The system is also profitable. Clegg points out that fixed overheads for pre-press, such as buildings, machinery and personnel are high. However, once these have been met, raw materials are relatively cheap.

He explains that these small companies were often dependent on three or four managers. If one was sick, or happened to be on holiday, the work tended to suffer, sometimes arriving late, or not reaching the required quality.

Clegg says that Wace has managed to overcome the traditional problems which plagued small pre-press companies through a decentralised form of management style. At the same time, he considers they have achieved important benefits from economies of scale.

As well as supplying high quality and fast service, he argues that Wace has managed to retain the important personal relationship between craftsman and customer. Many of the companies in the group are able to specialise in particular sectors. Clegg says that

they work faster and make fewer mistakes.

He also stresses the fact that digital communications within the group provides flexibility to cope with excess demand in one locality by transferring without difficulty to other areas, where business may be less brisk.

"We are winning work not just on service, but also volume," he says. "The catalogue project used to be given out to six different pre-press companies for preparation. But the quality from each company was different. The advantages of going to one house are obvious."

Analysts have been impressed by the willingness of the group to balance the requirements of an activity based on people with fixed assets in property. Citycorp, the UK off-shoot of the US bank, estimates that following recent successful applications for planning permission, its portfolio is worth at least £30m. Sales later this year should all but wipe out the company's debt.

Clegg is unwilling to talk about the opportunities offered by the sale of the properties, except to say that he wants to use them as a start to becoming the largest pre-press com-

pany in the world.

However, David Foster, a media analyst at the securities house, Kleinwort Grieveson, states that there is considerable scope for growth for UK pre-press industries on both the Continent and in the US.

He suggests that the UK industry is among the most competitive in the world. With the advent of digital transmission of data and images, the British pre-press companies should be well placed to expand abroad.

Foster believes that there could be particular opportunities in the US. Margins for UK companies entering the US market could be substantial.

Although labour and raw materials are almost identical in the two countries, costs for US customer are three to four times as great as in the UK.

Turnaround times can be four to five days, instead of overnight, as they are in the UK.

The company has, in the past, specialised in the straightforward concept of scanning images for publishing, converting that information into an electronic signal, compressing the resulting data so that it can be quickly transmitted, and then communicating the information elsewhere for retouching or printing.

Crossfield's core activity, which is mainly based in electronic page composition for newspapers and the pre-press

industry, has seen rapid growth over the last five years as the sector has been revolutionised by the type of technology the company has to offer.

The company exports 85 per cent of its products and is forced to compete against three other major players in an increasingly competitive market. They include Scitex, the world's largest printer of banknotes with 75 per cent of the world's market - last year it was its printing division, Crosfield Electronics, which generated most of the company's growth.

The expansion of UK-based Crosfield, whose core business is supplying technology for newspaper, magazines and pre-press industry, is a remarkable story.

As recently as 1983, the subsidiary made a loss of £2m. But by last year it was the main motor for growth in the group, with profits at £21m, a figure representing over 40 per cent of the group's total. Crosfield has evidently come a long way since it was purchased in 1974, with a turnover of £10m and profits of £1m.

"It's really very clever what has happened with Crosfield," says Terry Connor, publishing analyst with James Capel in London.

"Crosfield's core business, banknotes, was not in a big growth market. The company's market share was good, and although it was generating profits, the business was mature. The management decided to take a chance and invest its resources in high-growth, more risky business."

Connor explains that the basis of Crosfield's expansion has been through successfully exploiting a core technology and then exporting that expertise to a wide range of applications.

The company has, in the past, specialised in the straightforward concept of scanning images for publishing, converting that information into an electronic signal, compressing the resulting data so that it can be quickly transmitted, and then communicating the information elsewhere for retouching or printing.

Crosfield's core activity, which is mainly based in electronic page composition for newspapers and the pre-press

CROSFIELD ELECTRONICS

Markets which do not technically exist

The object of a stake-building exercise by Robert Maxwell, the ubiquitous British publisher, is seldom devoid of interest. De La Rue is no exception.

However, although its base industry is literally cash generative - the company is the world's largest printer of banknotes with 75 per cent of the world's market - last year it was its printing division, Crosfield Electronics, which generated most of the company's growth.

The expansion of UK-based Crosfield, whose core business is supplying technology for newspaper, magazines and pre-press industry, is a remarkable story.

As recently as 1983, the subsidiary made a loss of £2m. But by last year it was the main motor for growth in the group, with profits at £21m, a figure representing over 40 per cent of the group's total. Crosfield has evidently come a long way since it was purchased in 1974, with a turnover of £10m and profits of £1m.

"It's really very clever what has happened with Crosfield," says Terry Connor, publishing analyst with James Capel in London.

"Crosfield's core business, banknotes, was not in a big growth market. The company's market share was good, and although it was generating profits, the business was mature. The management decided to take a chance and invest its resources in high-growth, more risky business."

Connor explains that the basis of Crosfield's expansion has been through successfully exploiting a core technology and then exporting that expertise to a wide range of applications.

The company has, in the past, specialised in the straightforward concept of scanning images for publishing, converting that information into an electronic signal, compressing the resulting data so that it can be quickly transmitted, and then communicating the information elsewhere for retouching or printing.

Crosfield's core activity, which is mainly based in electronic page composition for newspapers and the pre-press

industry, has seen rapid growth over the last five years as the sector has been revolutionised by the type of technology the company has to offer.

The company exports 85 per cent of its products and is forced to compete against three other major players in an increasingly competitive market. They include Scitex, the world's largest printer of banknotes with 75 per cent of the world's market - last year it was its printing division, Crosfield Electronics, which generated most of the company's growth.

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PRINTING TECHNOLOGY 13

THE CONSUMPTION of paper and paper products worldwide is growing steadily, but UK production is actually declining as the paper and board industry faces continual pressure from restructuring, international competition and fluctuating exchange rates.

The challenge of turning threats into opportunities demands co-operative research within the industry, particularly in the application of new technology.

"It is a strange paradox that within the UK we have some of the most advanced paper-making operations in Europe, yet it seems to me that we're lagging behind in the application of artificial intelligence," says Mr Don Attwood, director of the Paper and Board Division at the Printing Industries Research Association (Pira).

Control systems are often less effective than they could be because sensors do not work properly or are out of calibration. Many systems hunt round the process mean and are usually over-ridden when rapid changes occur.

Operators correct defects by whatever means available and do not control the process by getting back to the cause of the defect.

Mr Attwood recognises this as a vast area which could be

the subject of several research projects on wet-end control, the application of artificial intelligence (AI), the linking of AI to control, the use of control data for troubleshooting, and many others - "there are some mills which are at the forefront of European technology, but the UK is the only world producer which has really suffered a decline in the output of paper and board."

Mr Gossage, in particular, has the same sort of problems which the UK has in terms of a shortage of forests. "But what the UK is very bad at is sales," he says. "You find really skilled technical people in charge of paper-making operations in the rest of Europe, unlike the UK. The Germans are paramount in putting PhDs in charge of mills. In the UK, we apply all the latest technology, but we do not seem to be all that good at it," he adds.

Western Europe has seen a 43 per cent growth in paper-making since 1970, while the UK is the only major world producer which has suffered a decline, although in 1985 Britain was the top West European producer.

The UK's share of West European production fell from 14.4 per cent in 1970 to only 7.8 per cent in 1985. According to

Statistical process control

(SPC) is finding favour in the US and some UK companies are starting to show interest. The first area to apply SPC could be with attributes - this would be with particular good areas to start since most customers complain relate to attributes, rather than physical or optical properties.

Pira is currently working with a group of other research associations and universities.

The performance of the West German industry by contrast is strikingly good, exceeding that of Japan and Scandinavia. The UK paper and board industry has started to grow again, mainly through foreign investment - 39 per cent of production capacity is owned by overseas companies.

Pira began a two-year project in 1987 for the development and application of a diagnostic expert system for the paper and board industry. Half of the cost is funded by Alvey. Pira claims that this is unique in that AI is being applied to long-standing industrial problems. They include:

1) On-line control of wet-end

chemistry by developing on-line sensors for integration into process control systems.

2) End-product pulp specification, which aims to improve the selection, specification and purchasing of market pulps by developing assessment techniques which inform papermakers about end-product properties.

3) Improved de-linking to improve the efficiency of wash and flotation de-linking systems.

4) Melt-blown nonwoven technology to undertake detailed evaluation programmed on melt-blown webs produced from various polymers.

5) Bonding systems for non-woven structures to examine the product characteristics resulting from the application of hybrid entanglement/chemical bonding systems to different materials and webs.

6) Evaluation of high quality office waste to assess the value and consistency of waste paper from offices.

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PRINTING TECHNOLOGY 14

Paul Simpson describes how British magazine printers have ridden to power on the back of web offset technology

Titles come home as the sick man of Europe recovers

THIS YEAR Britain has nudged ahead of its main continental rivals, Germany and Italy, in the magazine printing business. The return of some titles to the UK, like Company and Elle, has set the seal on a recovery which has transformed the industry from being the sick man of European print at the beginning of the 1980s.

"We are nudging in front in price and quality," says Bob Gavron, chairman of St Ives, which prints 500 magazine titles. "The Germans have got too expensive. Their labour costs are too high, because they have shorter working week and higher wages."

At the beginning of the decade, the British market was vulnerable to attack from German and Italian printers who took advantage of lower unit costs, economies of scale from the greater size of their plants, and the weakness of some UK printers.

But gradually titles have been returning. Company, National's women's monthly, returned from Italy to St Ives group in 1986. Only a handful of magazines are now printed abroad, but that handful includes two of the largest titles in the UK, Family Circle and Living, both still printed in Italy.

Now that both titles have been bought by IPC in a £28m deal, there is some hope that these too could return. Britain's biggest magazine publisher has traditionally strongly supported the UK print industry.

What has enabled the UK to fight back? The recovery is based on three main factors: investment in new technology, consolidation and rationalisation, and growth in the UK market.

In Italy and Germany, in particular, the market has been dominated by printer-publishers like Gruner & Jahr (part of the giant Bertelsmann group) which have been better equipped, financially, to invest upwards of £6m in gravure presses. There is also a greater concentration of long-run titles in Germany.

In the UK, gravure's last bastion is the Sunday supplement market, where the low rates of wastage and high speeds come into their own on very long runs. But in Germany and France it has 50.5 per cent and 25.8 per cent respectively of the magazine market. In the UK it's share is under 13 per cent.

British magazine printers have ridden to power on the back of web offset technology (similar to that used now in national newspapers, except that the magazine printer uses heat to set the ink) in which they have invested heavily. Maxwell Communications has spent over £150m on presses for its magazine division to support contracts like the Radio Times. St Ives is now building a new £130m-plus plant at Peterborough.

The Peterborough plant will house a new kind of web technology known as "short grain". The term refers to the grain in the paper web. Traditional web cylinders are short and fat, with A4 magazine pages imposed so that the spine runs



Bob Gavron: "We are nudging in front in price and quality"

parallel to the web and the grain. Short-grain cylinders are long and thin, pages are imposed with the longer edge running across the web and the shorter edge - hence the term "short grain". The trade press often compares the two to an oil drum and a carpet roll.

Short grain's significance is that it could enable web to compete on long-run work like Sunday supplements. Productivity is currently estimated at 25-40 per cent greater than a normal web. Paper wastage is much lower, comparable to gravure on the very long runs.

Max Harvey, head of St Ives magazine division, has made no secret of the fact he intends to attack the gravure market with the new presses at Peterborough. Not far away, in Corby, another large print group, HunterPrint, is building another new factory and in the home market difficult to achieve for publishers.

Magazine market by print process

	Sheet	Web	Gravure	Letterpress
UK (£m)	345	286	85	9
W. Germany (D'Mark)	854	713	1,924	330
France (FFm)	2,961	5,549	3,031	196

investing heavily in the same technology.

HunterPrint is spending £28m restructuring its web offset division which will now be centred on a brand new factory in Corby. It all goes according to plan, marketing manager David Ritsema says the first short-grain web will arrive on October 30.

The UK is in the vanguard of the short-grain revolution largely because its leading web printers have a vested interest in attacking the gravure market in this country and in Europe.

Investment by other independent printers has matched that by the big four, MCC, St Ives, Northern Opaq and Watmoughs. Of the four, Watmoughs has committed itself most heavily to gravure with a new factory to print the Sunday Times supplement.

Thamesprint Web Offset, an independent printer planning a stock market flotation in the next few years, has installed a 32pp Nebiolo web from Italy this year. Allan Denyer, the independent web house which won the contract for the Murdoch empire's New

what can happen to companies in this market which do not (or cannot) invest.

These takeovers mirror what is happening among their customers as IPC buys Family Circle and Living, Morgan Grampian, Link and Benns, join together within the United Newspapers group.

Mergers among publishers have not slowed down the expansion in the UK market. Growth is still running at over 6.7 per cent a year in a market which is said to be worth almost £700m, according to market research organisation Papis.

Malcolm Field, managing director of W.H. Smith, which handles 40 per cent of UK magazines as a wholesaler, says sales are up. "The growth in price and volume is around 10-12 per cent a year. It's very difficult to split price and volume, but it's probably about 6.7 per cent volume growth in sales."

Papis figures for France and Germany suggest growth is much lower. In Germany, the market is said to be worth DM3.4bn and growing at 4.5 per cent, due largely to the consumer sector. In France, the market is worth FF12.3bn but only growing at a modest 1.3 per cent this year.

It's no coincidence that publishers from both these countries have now moved into the UK market. Margaret Goldstone, managing director of Papis, says: "The sheer size of the magazine market in West Germany is making significant growth in the home market difficult to achieve for publishers."

Gruner & Jahr and Heinrich Bauer have stood the conventional wisdom in the UK market on its head with mass market titles like Prima and Bella selling well and stemming the trend towards specialist niche publishing.

The French publisher, Hatchette, has preferred co-operation, forming a joint venture with News International in the UK to promote Sky and Elle. IPC's latest women's launch, Marie Claire, is another Anglo-French joint venture. IPC chief executive John

makes, but they have paid off. Turnover leapt £2.5m last year for 15 per cent of sales, and the company has won a Queen's award for exports.

Pasmore is one of a small band of independent printers which have survived the 1980s without being swallowed up by their rivals. St Ives has led the takeover hunt, buying two of its biggest rivals, Chase and Riverside, for over £23m.

St Ives tried and failed to buy QP Printers from IPC. This company, IPC's last remaining print subsidiary, went to Robert Maxwell. Norton Opaq acquired a magazine business when it took over McCorquodale for £55m in 1986. McCorquodale itself had built up its interest in this area by acquisition.

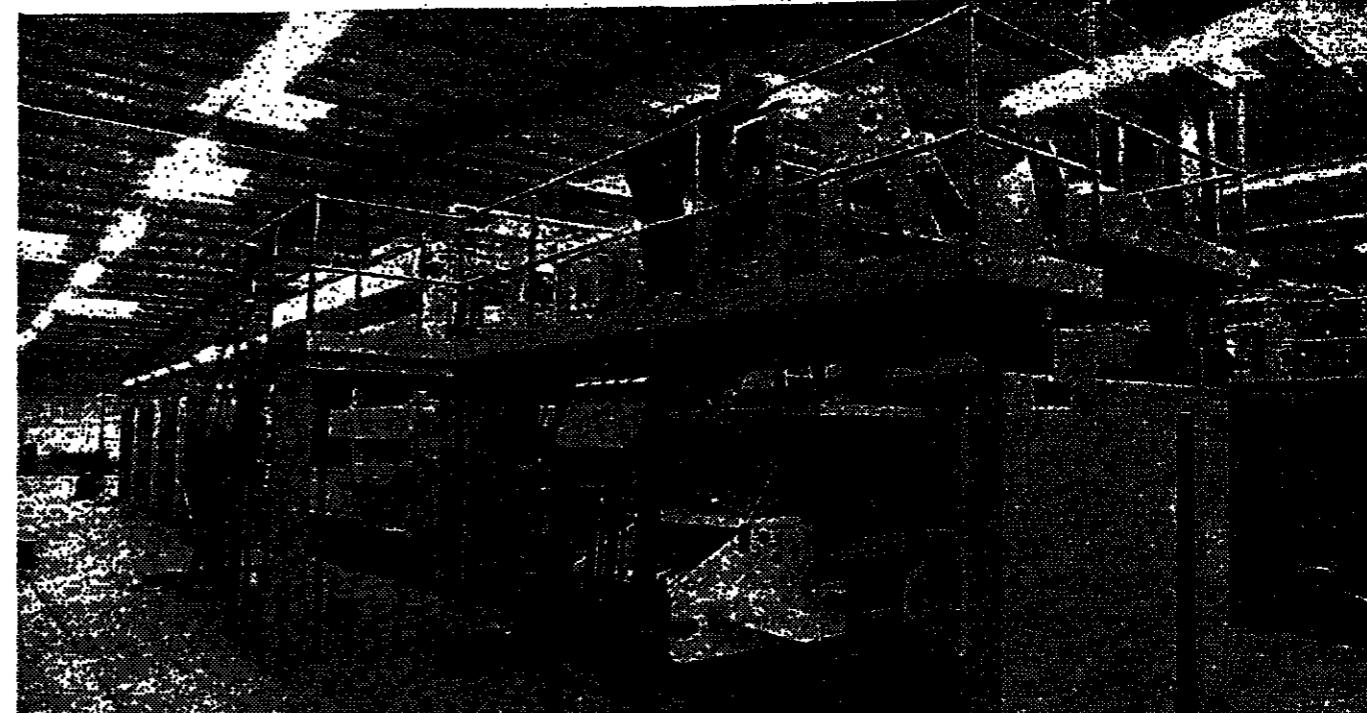
The rationale behind these takeovers is primarily a need to compete on a European and global basis with groups like Burda in Germany and Mondadori in Italy. But the cost of investment, at a time when a new web can cost anything from £2m to £20m, is another decisive factor. The fact that the once famous Garrod slipped into receivership shows

make-up, and they have paid off. Turnover leapt £2.5m last year for 15 per cent of sales, and the company has won a Queen's award for exports.

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Chase Web Offset, once a rival to St Ives, is now part of the St Ives group, which prints 500 magazine titles. Its completed 80,000 sq ft building, by John Reid & Sons, of Christchurch, houses its printing facility at Plymouth



Mellon says that, while the Germans stimulated the "global publishing" market, they did not invent it. "There's nothing new in franchising titles. America's been doing it for years with titles like Coen's."

"What we're seeing is large companies extending their areas of operation by developing their business. We're bringing together a French brand name and expertise and our experience in the UK market."

IPC plans to take this experience and apply it to other countries. Essentials, its most successful launch of 1988, has

been franchised to Italy and Canada. It will be published jointly in France under the title Advantage.

The lesson is also being applied to a specialist title like New Scientist, which will be printed in Melbourne, Australia, from October. "We're entering a global village," says Mellon. "As companies develop, you are bound to see more cross-border activity."

Will all this cross-border activity benefit British print? Monadoff is likely to pick up the contract for the Italian Essentials, and is strongly placed for the French edition.

Mellon says each contract will be awarded on its merits.

But British printers hope that advertising pressure on turnaround times will persuade the publishers to print in the UK. They look to Elle as an example.

Elle switched from a French printer to St Ives less than a year after its launch in the UK.

The difference is that the German publishers are also the largest magazine printers in their country. Company pride and the lowering cost of printing in-house would probably prevent them moving to the UK.

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PRINTING TECHNOLOGY 15

Raymond Snoddy explores the extraordinary Maxwell empire

LOCAL PEOPLE call the old Odhams gravure printing plant on the outskirts of Watford, Herts, "the cathedral" because of its flamboyant green spire.

The spire is still there, even though the inside of the building has been completely transformed and turned into one of Europe's largest and most modern newspaper printing plants, at a total cost of £10m.

The Watford plant is the centrepiece of Mr Robert Maxwell's plans to have his three national newspapers all printed in colour throughout the country by the end of this year, or very soon after.

It is a spectacular experience to walk through the enormous press-hall where nine of the 10 computer-controlled Max-Roland Calorprint web-offset presses, each capable of printing up to 70,000 copies an hour, are already at work producing colour editions of the *Daily Mirror*.

By the end of July, the Watford plant was turning out 2m copies a night in the highly automated plant and has taken over entirely from the old black and white presses at the Mirror's London headquarters at Holloway.

A total of 21 Calorprint presses have been bought in a modernisation programme costing around £20m. Apart from the 10 presses at Watford, there are two at Stamford Street, in central London, and six destined for the company's northern plant at Oldham. The final three presses are being held in reserve to see where the greatest demand for print capacity will turn out to be.

To Mr John Halloran, chief executive of all Mr Maxwell's printing operations outside North America, the investment

Eyes on the Tunnel and exports

in the new newspaper plants complete with sophisticated inserting equipment, is an example of how the printer can add value to the product of the publisher.

The capacity of the plant is so enormous that apart from the contract printing of local and regional papers, Mr Halloran, who is responsible for both BPCC, the commercial printing company, and BNPIC, the separate Maxwell newspaper printing arm, is beginning to think about the possibility of exports — once the Channel Tunnel has been built.

The range and diversity of Mr Maxwell's interests — everything from running satellite television channels to first division football clubs — and his grandiose ambition to have a 1990 to 2000 turnover of £1bn to £2bn, tends to obscure the fact that at the heart of the Maxwell Communication Corporation is a successful printing business which has arisen out of the loss-making BPC in the past seven years.

The company is now the largest contract printer in Europe and the second largest commercial printer in the UK. Last year the entire printing operation had pre-tax profits of £65.2m on sales of £569.4m. This compares with pre-tax profit of £22.2m on sales of £324.4m for worldwide communications and publishing.

Between 1982, soon after the reacquisition of the old BPC, and 1988 around £100m was invested in the group's most important

year on sales of £50m.

Mr Halloran and Mr Roger Day, former chief executive of Cambridge Instruments, decided to take on the task of trying to turn the company round because of the "gold" they found after a close examination of its assets.

"When I had a look at the company for Roger Day, I told him there were so many good things here that some of them had to work," Mr Halloran explains.

The "gold" included laser-based typesetting technology developed by Mr David Hedges, now the company's technical director; copyright on more than 800 typefaces in increasing demand by computer companies; and an extensive international distribution network, most of it wholly owned.

To stem the losses drastic surgery was also needed to bring the cost structure of the company more in line with its market share.

"You shut off the tape where money is dripping away. You shut off anything that looks like privileged or vested interests, and you set up an austere regime which most staff and trade unions don't object to if they know it is a good cause," Mr Day explains.

Products using old technology or where the prospects for growth seemed limited were scrapped, with accompanying redundancies.

The total number of employees was reduced from 1,400 to about 700 mainly by the closure of the Monotype plant in Dumbarton and the consolidation of manufacturing at its headquarters at Salfords in Surrey.

By 1982 Monotype had returned to profit, something that had not happened for about 10 years according to Mr Halloran, and a year later debts of more than £5m were removed and new capital of

£1.5m injected by institutional investors.

Curiously, in the process of reconstruction there has been an almost complete role reversal between Monotype and its old sparing partner Linotype. "We have become a newspaper company and they have taken more of the commercial market," Mr Halloran says.

Monotype's strong move into the newspaper market was based on laser image setters using the process known as raster scanning.

The horizontal scanning device can handle a complete newspaper page, pictures and graphics as well as text in about a minute.

The equipment is used by 229 newspaper titles around the world, including all but two Paris dailies and the Financial Times in its new Docklands plant.

The Monotype approach has been to avoid producing totally integrated typesetting pack-

ages and has instead concentrated on producing systems which can be used with more than 60 different "front end" or information input systems.

Throughout the printing industry, graphics reproduction is undergoing a technical transformation as new graphics systems stream into the market to improve the quality of printed products.

Among the leading innovators in this field is IGX Corp., the multinational pre-press and graphic equipment manufacturer. David Wells, the managing director of Itek Graphic, the UK division of IGX Corp., claims that his company is "the IBM of the graphics industry."

With revenues of \$30m in 1987, contributing to IGX's worldwide turnover of just over \$200m, Itek is only a fraction of the size of the computer giant, but has adopted similar attitudes that gave "Big Blue" dominance in computer markets. Like IBM, applying the latest technology into marketable products has been a feature of IGX success.

In 1987, a forerunner of IGX, the Gregory Commercial Camera Company, invented the first photostatic photocopier, putting the word "stat" into office language. In 1979, the company developed the first daylight operating camera to move pre-press operations out of the darkroom.

This year, a series of innovations in colour separation scanners led Itek Colour Graphics, a sister company of Itek Graphic, with its research and manufacturing based in Cheltenham, to receive the Queen's Award for Industry.

Itek Wells has taken technical innovation a step further with a concept of visual communications.

"Electronic technology is a vital key to success in financial services. The question now is how to use new systems to gain competitive advantage."

Detailed editorial synopses for these and other forthcoming FT surveys are available from the *Financial Times*, Bracken House, 10 Cannon Street, London, EC4P 4BY, tel. 01 249 8000, extension 3337.

There is likely to be further expansion in continental Europe to add to a controlling interest in Francois and a 10-volume, 1,448 article International Encyclopedia of Education on a single compact. In fact a normal size CD can hold up to 500 megabytes of text and graphics, the equivalent of nearly 100,000 printed pages.

The main thrust in future is likely to concentrate on expanding the publishing side of Maxwell Communication, for example through the \$2.2m offer for Macmillan in the US.

Mr Derek Tarrington, printing and publishing analyst at Diversified Printing Corporation brought with it a 12-year contract to print *Slim* copies each week of *Parade* magazine, the most widely circulated Sunday magazine in America. BPCC, with a total staff of 7,370, is also a significant player in the security printing market, including everything from cheques to financial documents.

Mr Halloran, who has worked in the printing industry for 19 years, believes the industry is going to become increasingly polarised between the large companies which can afford to invest in the latest technology and companies occupying specialised niches.

"The market is going to be driven by a few major players. You have got to offer low unit costs to people buying big print runs and you need to be able to offer one stop service," says Mr Halloran.

The company is pursuing a vertical strategy of being able to offer everything from paper through to electronic communication.

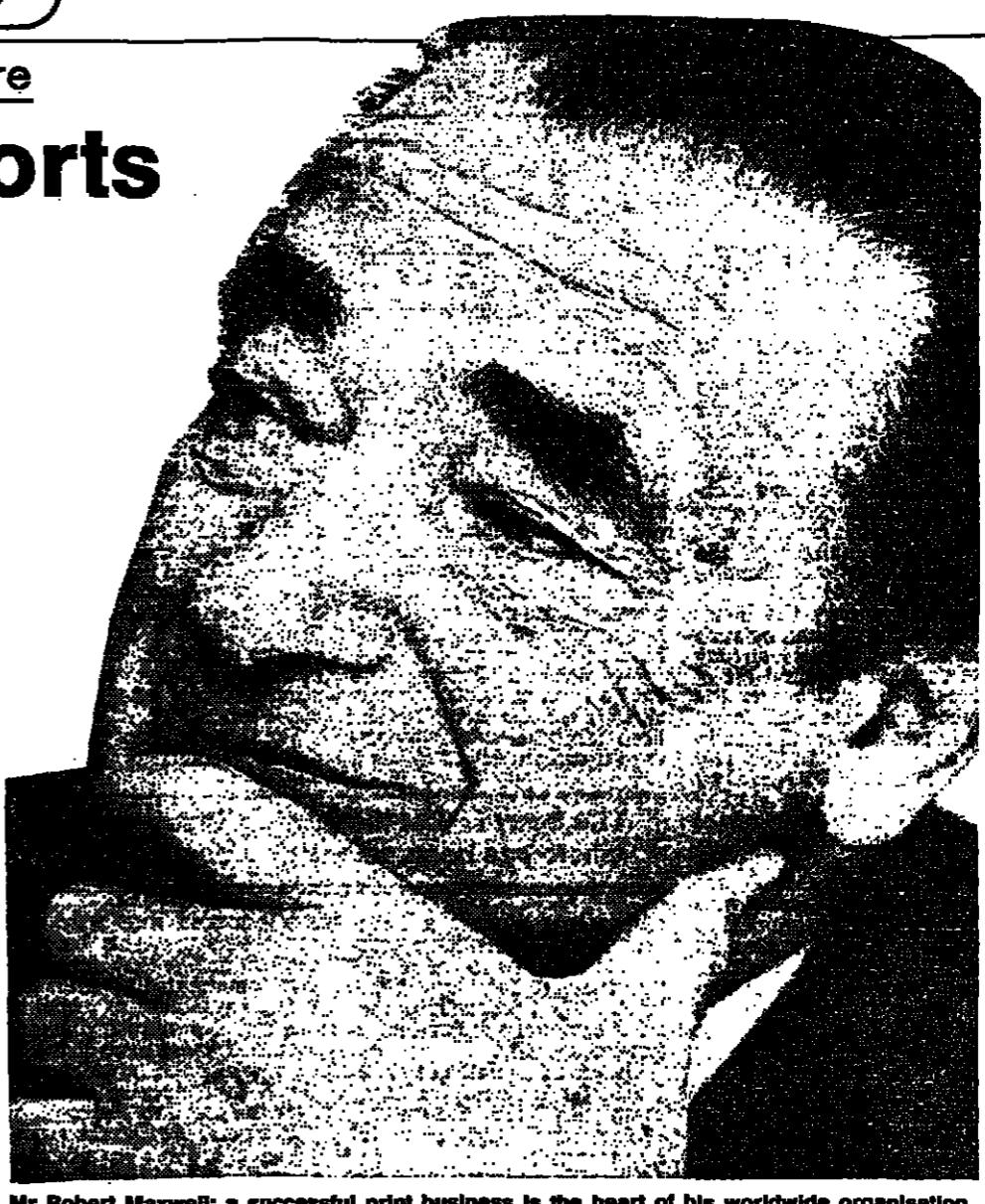
Compact discs are more familiar to the average consumer for their high quality music reproduction but CDs can hold in digital form, an awesome amount of information.

Monotype has also been moving out from its core business activity and adding expertise on communication of data and pictures to the composition of page images.

Since 1986 there has been a string of small strategic acquisitions, many of them involving software companies with a clever idea but which were undercapitalised.

The acquisitions have included GB Techniques, a UK-based front end supplier based on personal computers; Interact, a company specialising in digital picture storage systems; and Scientex, a company involved in desktop publishing, an area Monotype believes will show considerable growth.

Monotype has also acquired Graphic Systems Equipment, a leading French typesetting



Mr Robert Maxwell: a successful print business is the heart of his worldwide organisation

The company hopes that the PostScript system, which can be "retrofitted" to its existing Lasercomp systems, will open up new markets particularly in the US.

At the Iplex exhibition Monotype will also unveil a system which gives full colour output of newspaper and magazine quality with existing Lasercomp and Pioneer image setters.

"We are in there with the right product at the right time. Colour is the direction most newspapers want to go," Mr Holloway says.

Monotype will also introduce a new low cost image setter, based on laser diode technology aimed specifically at the corporate and commercial publishing markets.

Raymond Snoddy

PROFILE: MONOTYPE

An old name shines again



The Monotype Prism, a new low-cost imagesetter

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PROFILE: ITEK IN THE UK

Scanner wins an award

graphics centres was a logical development for many companies as the demand for quickly-produced, high-quality publications has risen dramatically, especially in the financial sector," says Mr Wells. Itek Graphic's client list in this area now numbers more than 70 in the City of London alone.

Unlike many manufacturers in the graphics industry, which concentrate on one type of technology, Itek believes the future is in diverse technical capabilities.

Although developments are proceeding even faster with colour photocopiers, David Wells feels that many manufacturers of these machines are not really competitors because the quality of reproduction, to a trained eye, means that they are still designed for a different type of market.

"We have three areas of technology: graphic cameras, developed and manufactured in Rochester, New York; composition systems designed for page layout and typesetting (developed and manufactured in Nashua, New Hampshire); and our UK-originated colour scanning equipment," says Mr Wells.

The diversity of technology and the desire to provide a better visual communications in industry appears to have been a major influence in the announcement on August 15 of the acquisition of IGX Corp. by A.R.Dick.

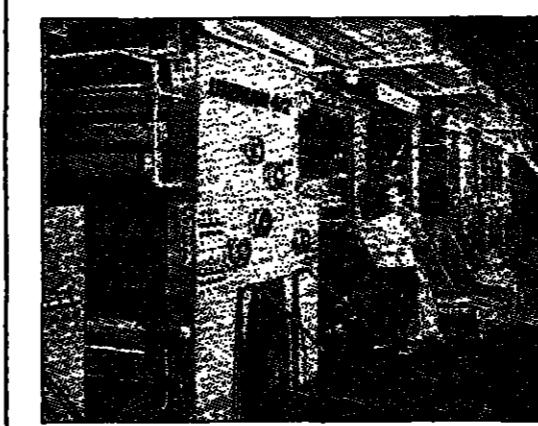
"The diversity of technology and the desire to provide a better visual communications in industry appears to have been a major influence in the announcement on August 15 of the acquisition of IGX Corp. by A.R.Dick."

There are obvious synergies between the two companies in the US, IGX Corp. hold 50% of the market for paper platemakers in "quick-print" installations and A.R.Dick manufacture 70% of the presses in the same sector.

Forecasts for the current financial year place Itek Graphic revenues at \$41m, rising to \$55m in 1989.

Philip Minshull

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PRINTING TECHNOLOGY 16

John Gapper on industrial relations in the printing industry

The struggle to keep up with technical change

THERE ARE few industries in which relations between managers and workers have been so affected by technology over the past five years, as printing. The wave of technical innovation that has swept through newspapers, and is now making its way through other parts of the sector, has brought with it profound changes in the industrial relations climate, particularly in Britain.

The UK is only the latest country to be affected by such changes. The US has already been through a painful set of strikes and conflict over the advent of single-stroke inputting in newspapers. Clashes in France between Didier and members of the CGT sacked by the company mirror similar tensions over the future role of print workers.

For the unions in Britain and other countries, it has been a struggle to keep up with technical innovations that have already brought changes abroad, and inevitably will at home. Next month, a delegation from Britain's general print union, Sogat '82, will visit Japan to survey the latest vision of the future.

It is perhaps no more than an unfortunate coincidence that one of the last foreign trips made by Sogat leaders was to the United States to study innovations there. It came just too late to prevent a dispute that proved decisive to the union's influence within British national newspapers: that at Wapping, east London, with Mr Rupert Murdoch's News International.

The manner in which today's issue of the Financial Times was produced has much to do with that dispute, in which a national newspaper management decisively won an argument over the publication of its own titles for the first time in several decades. The FT's management had, in effect, lost a dispute involving similar issues in 1983, only to gain by Mr Murdoch's victory.

Yet to judge industrial relations in the British printing industry solely by the upheavals within national, or even provincial newspapers, would be a mistake. The irony is that, while newspapers have provided some of the most public

agreements against a background of Government pressure to break down bargaining structures to local and plant level. Wage productivity and other conditions are still negotiated nationally.

A problem about which the federation and the industry's unions, are becoming concerned is growing skills shortages. The National Graphical Association skilled print union is seeking industry financial backing to set up its own training centre for the reskilling of members caught in the wave of technological innovation.

From the employers' side, among the most significant technical changes to have occurred so far in terms of industrial relations are those within press rooms. The NGA has resented the way in which some employers have managed to gain Sogat agreement to transfer members from the clerical area to the inputting of copy. A complaint to the TUC by the NGA led to a judgement broadly in its favour. The dispute is now in abeyance, partly because many crucial working agreements have already been reached, and partly because of amalgamation.

Printing companies are increasingly likely to seek agreements to bring in a new grade of technical operator cutting across traditional skill and union boundaries as the tech-

The irony is that the printing industry as a whole has been among the most peaceful

nology frees them from old constraints. It is one of the pressures behind the moves towards an amalgamation of the NGA and Sogat to form an all-purpose print union.

An amalgamation of the two bodies has been bedevilled by rivalries over the different regional structures, and tensions between the craft nature of the NGA and the more open structure of Sogat. Such delays have worried leaders of the Trades Union Congress, who see the media industry as one of the prime targets for the creation of a single industry-wide union.

Yet there are now more confident predictions about an

OVER THE past five years the advance of technology in the printing world has resulted in a fundamental change in the way many printed items, particularly magazines and newspapers, are produced. The key question now is whether that rate of change will continue.

That is one of the topics under consideration at FIRA, the UK research association for the paper, board, printing and packaging industries. The association's main role is to identify technological advances in the industry it represents, according to managing director, Mr Brian Blunden. "Our job is to take what is not widely known and be the agent to inform the practitioners so they can apply the knowledge to improve their businesses," he says.

Mr Blunden believes we have seen just the beginning of the technological revolution in the printing industry, and that a number of significant innovations will affect not only the type of products coming off the presses but the type of companies that will flourish as well.

"I can't help believing that we are bound to finish up with rather more big publishing companies and more smaller ones, with the ones in the middle squeezed out," he predicts. "I think we will end up with about 50 big companies worldwide."

Non-impact printing is the second area, and Mr Blunden predicts that within 10 years there could be a non-impact colour printing machine on the market for volume newspaper or periodical production.

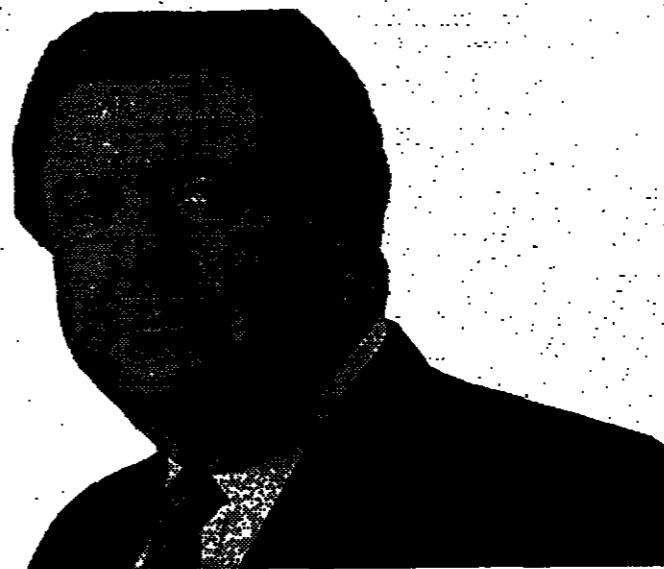
Automation has so far had

little impact on the printing industry, but could transform it in the future. It may only be a matter of time before a company such as the Japanese organisation, Mitsubishi, comes into the market. "One thing I find really interesting is whether a large automation company, like Mitsubishi, coming into printing from that angle, and a large printing company like Xerox, coming to it from their side, will eventually end up with the same product," says Mr Blunden.

■ Expert systems are computers which memorise and copy the way a skilled operator carries out a job. Developments there could result in a computer that memorises the design principles or typography of a newspaper or journal

FUTURE TRENDS

Middle will be squeezed



Mr Brian Blunden: "There will be 50 big companies"

and reproduced it as required. "I don't think those things are totally a dream," says Mr Blunden. "It all depends on the software - that's the crucial element."

■ Desk-top publishing will always be a small part of the market, he adds. "It's a non-invasive market, and desk-top publishing will take over from traditional printing. Desk-top publishing will happen because it cuts costs, and I think many entrepreneurial publishers of the future will begin by using desk-top publishing systems. But most people have no skills in how to make things look nice, or in pricing, or advertising. That is why they will go to the traditional publishers."

John Arnold head of Technical Services at the British Printing Industries Federation, which represents companies printing everything from car to van signs, and tin cans to labels to magazines, also believes the door is wide open for smaller companies in the printing industry. Mr Arnold foresees them specialising in a range of tasks, such as picture development, contract printing or typesetting - jobs which were previously done in-house by publishers.

One reason for that is the variety of equipment now produced for the industry: "30 years ago almost everything was printed on the same type of flat-bed press. But these days the different types of

equipment are growing all the time," Mr Arnold says. An example, he refers to laser printers and desk-top publishing systems, which take the toner away from the traditional typesetter and printer.

One of the main reasons for the diversity in products has been the inroads made by electronics into the printing equipment market. That trend is one of the hottest issues in the printing world, with manufacturers beginning to incorporate commercially-available computer products into their equipment, rather than building the hardware themselves.

That is particularly relevant for pre-press activities such as typesetting and graphic manipulation. For the manufacturers that means they will be able to introduce the latest products more quickly, since much of the hardware will be bought off-the-shelf.

Director of the British Federation of Printing Machinery and Supplies (BFPMS), Mr Geoffrey Cordin, believes it is one of the most important trends in the printing industry.

"No comment on the electronic revolution has become something of a cliché, yet it has led to a fundamental change in the nature of our member companies' operations, whether we like it or not," he says.

He thinks electronics has forced UK companies to ask what extra value they can add to standard products, rather than relying on the selling phrase 'Made in Britain'.

The value of printing equipment manufactured in the UK is worth \$200m a year, according to figures from the BFPMS, and about two-thirds of that equipment is exported.

As well as facing technological upheaval, the printing equipment manufacturers - like the publishing industry - has seen an unprecedented number of takeovers and a move towards the global company. For example, British Crossfield Electronics (part of De La Rue Group) has bought CSI Hasteck, Dicom and Lightspeed; the German company, Hell (an affiliate company of Siemens) has bought Xenotron; and the Japanese Daimeipon Ink Company has taken over the American group, Polychrome.

Della Bradshaw

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